

Monthly Notices OF THE Royal Astronomical Society

**VOLUME 265
1993 NOVEMBER-DECEMBER
(INCORPORATING ANNUAL INDEX
VOLS 260-265)**

Editorial Board

DR M. J. BARLOW, DEPARTMENT OF PHYSICS
AND ASTRONOMY, UNIVERSITY COLLEGE
LONDON

DR J. J. BINNEY, DEPARTMENT OF
THEORETICAL PHYSICS, OXFORD

DR R. F. CARSWELL, INSTITUTE OF
ASTRONOMY, CAMBRIDGE

PROFESSOR A. C. FABIAN, INSTITUTE OF
ASTRONOMY, CAMBRIDGE

DR D. R. FLOWER, DEPARTMENT OF PHYSICS,
UNIVERSITY OF DURHAM

DR J. R. SHAKESHAFT, MULLARD RADIO
ASTRONOMY OBSERVATORY, CAMBRIDGE

DR S. D. M. WHITE, INSTITUTE OF
ASTRONOMY, CAMBRIDGE

DR P. M. WILLIAMS, ROYAL OBSERVATORY,
EDINBURGH

Published for the
Royal Astronomical Society by
Blackwell Scientific Publications
OXFORD LONDON EDINBURGH
BOSTON MELBOURNE
PARIS BERLIN VIENNA



List of key words used in the annual subject indexes

(valid from January 1993)

This list is common to *Monthly Notices of the Royal Astronomical Society*, *Astronomy and Astrophysics*, and *The Astrophysical Journal*. In order to ease the search, the key words are subdivided into broad categories. No more than six subcategories altogether should be listed for a paper.

The subcategories in boldface containing the word 'individual' are intended for use with specific astronomical objects; these should never be used alone, but always in combination with the most common names for the astronomical objects in question. Note that each object counts as one subcategory within the allowed limit of six.

The parts of the key words in italics are for reference only and should be omitted when the key words are entered on the manuscript.

General

book reviews
editorials, notices
errata, addenda
extraterrestrial intelligence
history and philosophy of astronomy
miscellaneous
obituaries, biographies

Physical data and processes

acceleration of particles
accretion, accretion discs
atomic data
atomic processes
black hole physics
chaotic phenomena
conduction
convection
cosmic strings
dense matter
diffusion
elementary particles
equation of state
gravitation
hydrodynamics
instabilities
line: formation
line: identification
line: profiles
magnetic fields
(*magnetohydrodynamics*) MHD
masers
molecular data
molecular processes
nuclear reactions, nucleosynthesis, abundances
plasmas

polarization

radiation mechanisms: gravitational
radiation mechanisms: miscellaneous
radiative transfer
relativity
scattering
shock waves
turbulence

Astronomical instrumentation, methods and techniques

artificial satellites, space probes
atmospheric effects
instrumentation: detectors
instrumentation: interferometers
instrumentation: miscellaneous
instrumentation: photometers
instrumentation: polarimeters
instrumentation: spectrographs
methods: analytical
methods: data analysis
methods: miscellaneous
methods: numerical
methods: observational
methods: statistical
site testing
techniques: image processing
techniques: interferometric
techniques: miscellaneous
techniques: photometric
techniques: polarimetric
techniques: radar astronomy
techniques: radial velocities
techniques: spectroscopic
telescopes

Astronomical data bases

astronomical data bases: miscellaneous
atlases
catalogues
surveys

Astrometry and celestial mechanics

astrometry
celestial mechanics, stellar dynamics
eclipses
ephemerides
occultations
reference systems
time

The Sun

Sun: abundances
Sun: activity
Sun: atmosphere
Sun: chromosphere
Sun: corona
Sun: faculae, plages
Sun: filaments
Sun: flares
Sun: fundamental parameters
Sun: general
Sun: granulation
Sun: interior
Sun: magnetic fields
Sun: oscillations
Sun: particle emission
Sun: photosphere
Sun: prominences
Sun: radio radiation
Sun: rotation
(Sun:) solar-terrestrial relations
(Sun:) solar wind
(Sun:) sunspots
Sun: transition region
Sun: UV radiation
Sun: X-rays, gamma-rays

stars: evolution
stars: flare
stars: formation
stars: fundamental parameters (*classification, colours, luminosities, masses, radii, temperatures, etc.*)
stars: general
stars: giant
(stars:) Hertzsprung-Russell (HR) diagram
stars: horizontal branch
stars: imaging
stars: individual:...
stars: interiors
stars: kinematics
stars: late-type
stars: low-mass, brown dwarfs
stars: luminosity function, mass function
stars: magnetic fields
stars: mass-loss
stars: neutron
(stars:) novae, cataclysmic variables
stars: oscillations (*including pulsations*)
stars: peculiar (*except chemically peculiar*)
stars: planetary systems
stars: Population II
stars: pre-main-sequence
(stars:) pulsars: general
(stars:) pulsars: individual:...
stars: rotation
stars: statistics
(stars:) subdwarfs
(stars:) supergiants
(stars:) supernovae: general
(stars:) supernovae: individual:...
(stars:) variables: Cepheids
(stars:) variables: δ Scuti
stars: variables: other
(stars:) white dwarfs
stars: Wolf-Rayet

Solar system

comets: general
comets: individual:...
Earth
interplanetary medium
meteoroids
minor planets
Moon
planets and satellites: general
planets and satellites: individual:...
Solar system: formation
Solar system: general

stars: rotation
stars: statistics
(stars:) subdwarfs
(stars:) supergiants
(stars:) supernovae: general
(stars:) supernovae: individual:...
(stars:) variables: Cepheids
(stars:) variables: δ Scuti
stars: variables: other
(stars:) white dwarfs
stars: Wolf-Rayet

Interstellar medium (ISM), nebulae

ISM: abundances
ISM: atoms
ISM: bubbles
ISM: clouds
(ISM:) cosmic rays
(ISM:) dust, extinction
ISM: general
(ISM:) H II regions
ISM: individual:...
(*except planetary nebulae*)
ISM: jets and outflows
ISM: kinematics and dynamics
ISM: magnetic fields
ISM: molecules
(ISM:) planetary nebulae: general
(ISM:) planetary nebulae: individual:...
(ISM:) reflection nebulae
ISM: structure
ISM: supernova remnants

Stars

stars: abundances
stars: activity
stars: AGB and post-AGB
stars: atmospheres
(stars:) binaries (*including multiple*): close
(stars:) binaries: eclipsing
(stars:) binaries: general
(stars:) binaries: spectroscopic
(stars:) binaries: visual
stars: carbon
stars: chemically peculiar
stars: chromospheres
(stars:) circumstellar matter
stars: coronae
stars: distances
stars: early-type
stars: emission-line, Be

The Galaxy

Galaxy: abundances
Galaxy: centre
Galaxy: evolution
Galaxy: formation
Galaxy: fundamental parameters
Galaxy: general
(*Galaxy:*) globular clusters: general
(*Galaxy:*) **globular clusters: individual:...**
Galaxy: halo
Galaxy: kinematics and dynamics
(*Galaxy:*) open clusters and associations: general
(*Galaxy:*) **open clusters and associations: individual:...**
(*Galaxy:*) solar neighbourhood
Galaxy: stellar content
Galaxy: structure

Galaxies

galaxies: abundances
galaxies: active
(*galaxies:*) BL Lacertae objects: general
(*galaxies:*) **BL Lacertae objects: individual:...**
galaxies: clustering
galaxies: clusters: individual:...
galaxies: compact
(*galaxies:*) cooling flows
galaxies: distances and redshifts
galaxies: elliptical and lenticular, cD
galaxies: evolution
galaxies: formation
galaxies: fundamental parameters
(*classification, colours, luminosities, masses, radii, etc.*)
galaxies: general
galaxies: individual:...
galaxies: interactions
(*galaxies:*) intergalactic medium
galaxies: ISM
galaxies: irregular
galaxies: jets
galaxies: kinematics and dynamics
(*galaxies:*) Local Group
galaxies: luminosity function, mass function
(*galaxies:*) Magellanic Clouds
galaxies: magnetic fields
galaxies: nuclei
galaxies: peculiar
galaxies: photometry
(*galaxies:*) quasars: absorption lines
(*galaxies:*) quasars: emission lines
(*galaxies:*) quasars: general

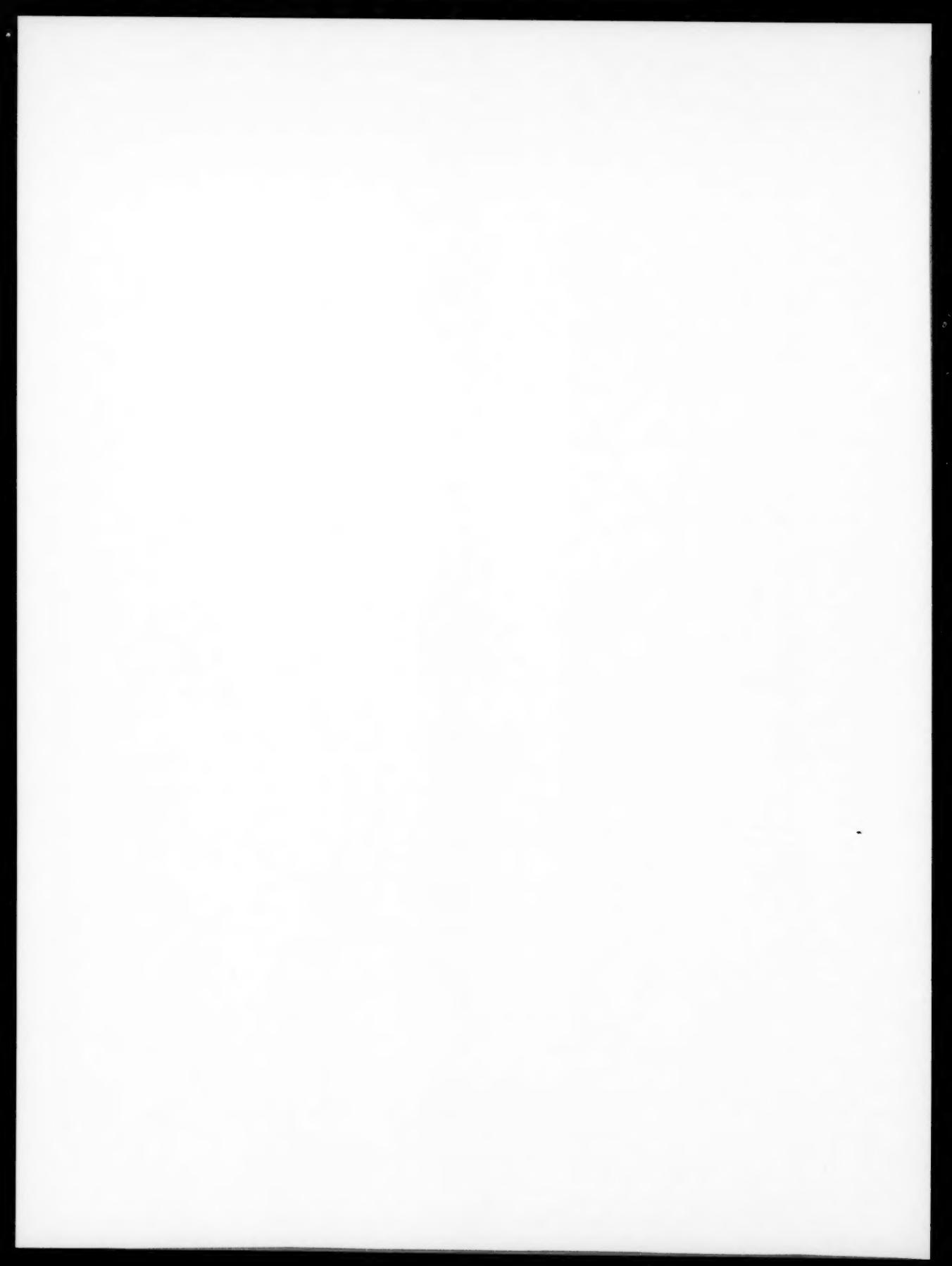
(*galaxies:*) **quasars: individual:...**
galaxies: Seyfert
galaxies: spiral
galaxies: starburst
galaxies: star clusters
galaxies: stellar content
galaxies: structure

Cosmology

(*cosmology:*) cosmic microwave background
cosmology: miscellaneous
cosmology: observations
cosmology: theory
(*cosmology:*) dark matter
(*cosmology:*) diffuse radiation
(*cosmology:*) distance scale
(*cosmology:*) early Universe
(*cosmology:*) gravitational lensing
(*cosmology:*) large-scale structure of Universe

Sources as a function of wavelength

gamma-rays: bursts
gamma-rays: observations
gamma-rays: theory
infrared: galaxies
infrared: general
infrared: interstellar: continuum
infrared: interstellar: lines
infrared: Solar system
infrared: stars
radio continuum: galaxies
radio continuum: general
radio continuum: interstellar
radio continuum: Solar system
radio continuum: stars
radio lines: galaxies
radio lines: general
radio lines: ISM
radio lines: Solar system
radio lines: stars
ultraviolet: galaxies
ultraviolet: general
ultraviolet: interstellar
ultraviolet: Solar system
ultraviolet: stars
X-rays: bursts
X-rays: galaxies
X-rays: general
X-rays: interstellar
X-rays: stars



SUBJECT INDEX

General

Editorials, notices

Editorial, 260, 1

Errata, addenda

- Erratum and Addendum: The viscous evolution of elliptical accretion discs (Syer D., Clarke C.J.), 260, 463
Erratum: VLBI, MERLIN and VLA observations of the blazar 1156 + 295: a bending relativistic jet (M'Hardy I.M., Marscher A.P., Gear W.K., Muxlow T., Lehto H.J., Abraham R.G.), 261, 464
Corrigendum: On the origin of the radio emission in *IRAS* galaxies with high ultrahigh luminosity: the starburst-AGN controversy (Colina L., Pérez-Olea D.), 262, 543
Erratum: Potential-density pairs for galaxies (de Zeeuw T., Pfenniger D.), 262, 1087
Addendum: Anisotropic spheres in general relativity (Bondi Sir Hermann), 262, 1088

Physical data and processes

Acceleration of particles

- Interpretation of very high-energy gamma-rays from the direction of the Crab nebula (Bogovalov S.V., Kotov Yu.D.), 262, 75
Relativistic tidal impulse (Mashhoon B., McClune J.C.), 262, 881
Radio haloes, cluster mergers, and cooling flows (Tribble P.C.), 263, 31
The kinetic power and luminosity of parsec-scale radio jets – an argument for heavy jets (Celotti A., Fabian A.C.), 264, 228
Cosmic ray acceleration at relativistic shock waves in the presence of oblique magnetic fields with finite-amplitude perturbations (Ostrowski M.), 264, 248
The ionization structure of Cygnus X-3: a massive iron-depleted companion? (Terasawa N., Nakamura H.), 265, L1

Accretion, accretion discs

- Observations and modelling of the hard X-ray emission from GX 1 + 4 (Greenhill J.G., Sharma D.P., Dieters S.W.B., Sood R.K., Waldron L., Storey M.C.), 260, 21
Cosmic-abundance absorption dips in X1755–33 (Church M.J., Balucińska-Church M.), 260, 59
The magnetic field configurations of AM Herculis binaries (Wu K., Wickramasinghe D.T.), 260, 141
The accretion curtain model for intermediate polars – I. A kinematical model for radial velocity and velocity dispersion (Ferrario L., Wickramasinghe D.T., King A.R.), 260, 149
A survey for QPOs in AM Her:ulids stars and a detailed study of the QPOs in AN Ursae Majoris (Ramseyer T.F., Robinson E.L., Zhang E., Wood J.H., Stieren R.F.), 260, 209
Equilibrium of rapidly rotating polytropes (Balmforth N.J., Howard L.N., Spiegel E.A.), 260, 253
X-ray orbital modulations in intermediate polars (Hellier C., Garlick M.A., Mason K.O.), 260, 299
Sonic point instability in disc accretion and types of stress tensor (Kato S., Wu Xue-bing, Yang Lan-tian, Yang Zhi-liang), 260, 317
Vertical shear instability in accretion discs (Kumar S., Coleman C.S.), 260, 323
Accretion discs in active galactic nuclei: tell-tale signs of the nuclear star cluster? (Perry J.J., Williams R.), 260, 437
Erratum and Addendum: The viscous evolution of elliptical accretion discs (Syer D., Clarke C.J.), 260, 463
The ionization state of the winds from cataclysmic variables without classical boundary layers (Hoare M.G., Drew J.E.), 260, 647
X-ray polarization properties of a centrally illuminated accretion disc (Matt G.), 260, 663
The outflowing regime of quasi-spherical accretion on to X-ray compact objects (Igumenshchev I.V., Illarionov A.F., Kompaneets D.A.), 260, 727
The effects of photoionization on X-ray reflection spectra in active galactic nuclei (Ross R.R., Fabian A.C.), 261, 74
- The accretion of diamagnetic blobs by a rotating magnetosphere (King A.R.), 261, 144
Accretion disc response to a stellar fly-by (Clarke C.J., Pringle J.E.), 261, 190
An extended disc around SS 433 (Fabrika S.N.), 261, 241
Optical spectroscopy of the massive X-ray binary SMC X-1/Sk 160 (Reynolds A.P., Hilditch R.W., Bell S.A., Hill G.), 261, 337
Unified model fitting to variable X-ray spectra of Cygnus X-3 (Nakamura H., Matsuoka M., Kawai N., Yoshida A., Miyoshi S., Kitamoto S., Yamashita K.), 261, 353
Changes of accretion spot longitude in eclipsing AM Herculis binaries (Bailey J., Wickramasinghe D.T., Ferrario L., Hough J.H., Cropper M.), 261, L31
The soft X-ray excesses of high-luminosity AGN (Saxton R.D., Turner M.J.L., Williams O.R., Stewart G.C., Ohashi T., Kii T.), 262, 63
Discovery of an EUV-bright polar in the period gap from the *ROSAT* Wide Field Camera sky survey (Buckley D.A.H., O'Donoghue D., Hassall B.J.M., Kellett B.J., Mason K.O., Sekiguchi K., Watson M.G., Wheatley P.J., Chen A.), 262, 93
Formation of low-mass binaries with millisecond pulsars (Muslimov A.G., Sarna M.J.), 262, 164
Iron K α lines from X-ray photoionized accretion discs (Matt G., Fabian A.C., Ross R.R.), 262, 179
Further probing of the X-ray source in NGC 4151: new constraints on the nuclear geometry (Yaqoob T., Warwick R.S., Makino F., Otani C., Sokoloski J.L., Bond I.A., Yamauchi M.), 262, 435
Ginga observations of X1820–303 in the globular cluster NGC 6624 (Ercan E.N., Cruise A.M., Kellett B.J., Saygili K.), 262, 511
A simple analysis of period noise in binary X-ray pulsars (de Kool M., Anzer U.), 262, 726
Steady flow on to a conveyor belt: causal viscosity and shear shocks (Syer D., Narayan R.), 262, 749
X-ray observations of EX Hydrae with the *Einstein* Solid State Spectrometer (Singh J., Swank J.), 262, 1000
The discovery of a new bright eclipsing AM Her system (Hakala P.J., Watson M.G., Viňu O., Hassall B.J.M., Kellett B.J., Mason K.O., Piironen V.), 263, 61
The nebular remnant and quiescent spectrum of Nova GK Persei (Anupama G.C., Prabhu T.P.), 263, 335
A three-dimensional smoothed particle hydrodynamics simulation of the active phase of SS Cyg-type discs and its implications for the mass transfer burst model (Lanzafame G., Belvedere G., Molteni D.), 263, 839
The four periodicities of the cataclysmic variable TV Columbae (Hellier C.), 264, 132
Stellar accretion in active galactic nuclei (King A.R., Done C.), 264, 388
An estimate of the central black hole mass in NGC 6814 (Campana S., Stella L.), 264, 395
Is X1957 + 11 a black hole candidate? (Yaqoob T., Ebisawa K., Mitsuda K.), 264, 411
Evidence for non-axisymmetric absorption in V1315 Aquilae (Smith R.C., Fiddik R.J., Hawkins N.A., Catalán M.S.), 264, 619
3D structure of truncated accretion discs in close binaries (Meglicki Z., Wickramasinghe D., Bicknell G.V.), 264, 691
Multiple fragmentation in collapsing protostars (Burkert A., Bodenheimer P.), 264, 798
X-ray photoionized accretion discs: UV and X-ray continuum spectra and polarization (Matt G., Fabian A.C., Ross R.R.), 264, 839
Self-similar collapse of flat systems (Boily C., Lynden-Bell D.), 264, 1003
Magnetic moment distribution of magnetic cataclysmic variables – II. Effects due to period distribution (Wu K., Wickramasinghe D.T.), 265, 115
Simulation of the X-ray light curves of intermediate polars (Norton A.J.), 265, 316
A star orbiting around a supermassive rotating black hole: free motion and corrections due to star-disc collisions (Vokrouhlický D., Karas V.), 265, 365

- RE1844-74: a new AM Her star from the *ROSAT* Wide Field Camera Survey (O'Donoghue D., Mason K.O., Chen A., Hassall B.J.M., Watson M.G.), **265**, 545
- A model for the optical continuum and Balmer emission lines in intermediate polars (Ferrario L., Wickramasinghe D.T.), **265**, 605
- TV Columbae in outburst: a mass transfer event? (Hellier C., Buckley D.A.H.), **265**, 766
- Optical studies of V404 Cyg, the X-ray transient GS 2023 + 338 – III. The secondary star and accretion disc (Casares J., Charles P.A., Naylor T., Pavlenko E.P.), **265**, 834
- 1H0551-819: discovery of a new cataclysmic variable from the *HEAO-1* Survey (Buckley D.A.H., Remillard R.A., Tuohy I.R., Warner B., Sullivan D.J.), **265**, 926
- Wind accretion in binary stars – I. Intricacies of the flow structure (Theuns T., Jorissen A.), **265**, 946
- ROSAT* PSPC observations of NGC 7469 and Ark 120 (Brandt W.N., Fabian A.C., Nandra K., Tsuruta S.), **265**, 996
- Is the accretion disc of TT Ari hotter after a minimum? (Tout C.A., Pringle J.E., la Dous C.), **265**, L5
- On the radio properties of broad-absorption-line QSOs (de Kool M.), **265**, L17
- Discovery of another AM Her variable in the period gap (Wickramasinghe D.T., Ferrario L., Bailey J.A., Drissen L., Dopita M.A., Shara M., Hough J.H.), **265**, L29
- Disc-overflow accretion in the intermediate polar FO Aquarii (Hellier C.), **265**, L35
- Atomic data**
- Accurate transition probabilities for spectral lines of N III (Stafford R.P., Hibbert A., Bell K.L.), **260**, L11
- Observations of the Bowen fluorescence mechanism and charge transfer in planetary nebulae – II (Liu X., Danziger J., Murdin P.), **262**, 699
- Experimental isotopic shifts in Ni II and Fe II (Rosberg M., Litzén U., Johansson S.), **262**, L1
- Collision strengths and rate coefficients for electron impact excitation in He I: an extrapolation of *R*-matrix calculations to higher electron impact energies (Lanzafame A.C., Tully J.A., Berrington K.A., Dufton P.L., Byrne P.B., Burgess A.), **264**, 402
- Solar identifications of Fe X–Fe XIV based on comparison with beam-foil, tokamak and laser-produced plasma spectra (Jupé C., Isler R.C., Träbert E.), **264**, 627
- Atomic processes**
- The outflowing regime of quasi-spherical accretion on to X-ray compact objects (Igumenshchev I.V., Illarionov A.F., Kompaneets D.A.), **260**, 727
- Observations of the Bowen fluorescence mechanism and charge transfer in planetary nebulae – I (Liu X., Danziger J.), **261**, 465
- Observations of the Bowen fluorescence mechanism and charge transfer in planetary nebulae – II (Liu X., Danziger J., Murdin P.), **262**, 699
- The combined effect of partial redistribution and non-coherent electron scattering on polarized resonance line transfer (Nagendra K.N., Rangarajan K.E., Mohan Rao D.), **262**, 855
- Collision strengths and rate coefficients for electron impact excitation in He I: an extrapolation of *R*-matrix calculations to higher electron impact energies (Lanzafame A.C., Tully J.A., Berrington K.A., Dufton P.L., Byrne P.B., Burgess A.), **264**, 402
- Black hole physics**
- Accretion discs in active galactic nuclei: tell-tale signs of the nuclear star cluster? (Perry J.J., Williams R.), **260**, 437
- The merger rate of neutron star and black hole binaries (Tutukov A.V., Yungelson L.R.), **260**, 675
- The outflowing regime of quasi-spherical accretion on to X-ray compact objects (Igumenshchev I.V., Illarionov A.F., Kompaneets D.A.), **260**, 727
- The evolutionary status of the black hole candidate V404 Cygni (King A.R.), **260**, L5
- Binary capture of small bodies by three-body interactions and impact on to compact objects (Pineault S., Duquet J.-R.), **261**, 246
- Reversal of force and energy coupling around a rotating black hole (Chakrabarti S.K.), **261**, 625
- Black hole remnants: soft X-ray flares from tidally disrupted stars (Sembay S., West R.G.), **262**, 141
- Relativistic tidal impulse (Mashhoon B., McClune J.C.), **262**, 881
- Collimation effects of the Kerr field (Bičák J., Semerák O., Hadrava P.), **263**, 545
- Stellar accretion in active galactic nuclei (King A.R., Done C.), **264**, 388
- An estimate of the central black hole mass in NGC 6814 (Campana S., Stella L.), **264**, 395
- Is X1957 + 11 a black hole candidate? (Yaqoob T., Ebisawa K., Mitsuda K.), **264**, 411
- A star orbiting around a supermassive rotating black hole: free motion and corrections due to star-disc collisions (Vokrouhlický D., Karas V.), **265**, 365
- Optical studies of V404 Cyg, the X-ray transient GS 2023 + 338 – III. The secondary star and accretion disc (Casares J., Charles P.A., Naylor T., Pavlenko E.P.), **265**, 834
- Chaotic phenomena**
- AGN X-ray light curves – shot noise or low-dimensional attractor? (Lehto H.J., Czerny B., McHardy I.M.), **261**, 125
- Irregular small-amplitude pulsations in yellow supergiant star models (Aikawa T.), **262**, 893
- Convection**
- Massive Thorne–Żytkow objects: structure and nucleosynthesis (Cannon R.C.), **263**, 817
- On the structure and secular stability of plane-parallel stellar objects (Roxburgh I.W.), **264**, 636
- Dense matter**
- The effects of QCD parameters on the quark core dimensions in compact stars (de Freitas Pacheco J.A., Horvath J.E., de Araújo J.C.N., Cattani M.), **260**, 499
- Strange-pulsar evolution and soft γ -repeaters (Horvath J.E., Vucetic H., Benvenuto O.G.), **262**, 506
- Rotation of the neutron-drip superfluid in pulsars: evidence for corotating vortices (Jones P.B.), **263**, 619
- Elementary particles**
- The suppression of pulsar and gamma-ray burst annihilation lines by magnetic photon splitting (Baring M.G.), **262**, 20
- Strange-pulsar evolution and soft γ -repeaters (Horvath J.E., Vucetic H., Benvenuto O.G.), **262**, 506
- Equation of state**
- The effects of QCD parameters on the quark core dimensions in compact stars (de Freitas Pacheco J.A., Horvath J.E., de Araújo J.C.N., Cattani M.), **260**, 499
- Gravitation**
- Spherically symmetric, static solutions of the Brans–Dicke field equations in vacuum (Riazi N., Askari H.R.), **261**, 229
- Reversal of force and energy coupling around a rotating black hole (Chakrabarti S.K.), **261**, 625
- Addendum: Anisotropic spheres in general relativity (Bondi Sir Hermann), **262**, 1088
- Relativistic hydrodynamics and gravitational instability revisited (Jackson J.C.), **264**, 729
- Self-similar collapse of flat systems (Boily C., Lynden-Bell D.), **264**, 1003
- Hydrodynamics**
- Ballistic stellar jets from sources with a time-dependent ejection direction (Raga A.C., Cantó J., Biro S.), **260**, 163
- Equilibria of rapidly rotating polytropes (Balmforth N.J., Howard L.N., Spiegel E.A.), **260**, 253
- Sonic point instability in disc accretion and types of stress tensor (Kato S., Wu Xue-bing, Yang Lan-tian, Yang Zhi-liang), **260**, 317
- Vertical shear instability in accretion discs (Kumar S., Coleman C.S.), **260**, 323
- Erratum and Addendum: The viscous evolution of elliptical accretion discs (Syer D., Clarke C.J.), **260**, 463
- The outflowing regime of quasi-spherical accretion on to X-ray compact objects (Igumenshchev I.V., Illarionov A.F., Kompaneets D.A.), **260**, 727
- Angular momentum transfer by non-radial oscillations in massive main-sequence stars (Lee U., Saio H.), **261**, 415

- Mass-loaded astronomical flows – IV. A time-dependent hydrodynamic model of an observed clumpy wind-blown bubble, RCW 58 (Arthur S.J., Dyson J.E., Hartquist T.W.), **261**, 425
- Mass-loaded astronomical flows – V. Tails: intermediate-scale structures in flowing clumpy media (Dyson J.E., Hartquist T.W., Biro S.), **261**, 430
- The structure of knots in variable stellar jets – I. Symmetric knots (Falle S.A.E.G., Raga A.C.), **261**, 573
- Supernova remnants in plane-stratified media: predictions for H α -emitting regions (Arthur S.J., Falle S.A.E.G.), **261**, 681
- Non-linear radial pulsations of hot extreme helium stars (Fadeyev Yu.A.), **262**, 119
- Steady flow on to a conveyor belt: causal viscosity and shear shocks (Syer D., Narayan R.), **262**, 749
- Irregular small-amplitude pulsations in yellow supergiant star models (Aikawa T.), **262**, 893
- Rotation of the neutron-drip superfluid in pulsars: evidence for corotating vortices (Jones P.B.), **263**, 619
- Are the filaments formed by synchrotron thermal instability bright? (de Gouveia Dal Pino E.M., Opher R.), **263**, 687
- The gravitational stability of a compressed slab of gas (Lubow S.H., Pringle J.E.), **263**, 701
- Hydrodynamics of relativistic fireballs (Piran T., Shemi A., Narayan R.), **263**, 861
- Clustering of galaxies by the α -effect (Krishan V.), **264**, 257
- A model atmosphere investigation of the effect of irradiation on the secondary star in a dwarf nova (Brett J.M., Smith R.C.), **264**, 641
- 3D structure of truncated accretion discs in close binaries (Meglicki Z., Wickramasinghe D., Bicknell G.V.), **264**, 691
- Relativistic hydrodynamics and gravitational instability revisited (Jackson J.C.), **264**, 729
- Machine-gun jets from time-dependent sources (Raga A.C., Biro S.), **264**, 758
- Multiple fragmentation in collapsing protostars (Burkert A., Bodenheimer P.), **264**, 798
- Self-similar collapse of flat systems (Boily C., Lynden-Bell D.), **264**, 1003
- Simulations of dissipative galaxy formation in hierarchically clustering universes – I. Tests of the code (Navarro J.F., White S.D.M.), **265**, 271
- Bipolar recurrent nova outbursts – I. Hydrodynamic models (Lloyd H.M., Bode M.F., O'Brien T.J., Kahn F.D.), **265**, 457
- Dynamical instability for radiating anisotropic collapse (Chan R., Herrera L., Santos N.O.), **265**, 533
- Three-dimensional hydrodynamic simulations of collapsing prolate clouds (Nelson R.P., Papaloizou J.C.B.), **265**, 905
- Wind accretion in binary stars – I. Intricacies of the flow structure (Theuns T., Jorissen A.), **265**, 946
- Instabilities**
- Sonic point instability in disc accretion and types of stress tensor (Kato S., Wu Xue-bing, Yang Lan-tian, Yang Zhi-liang), **260**, 317
- Vertical shear instability in accretion discs (Kumar S., Coleman C.S.), **260**, 323
- Clumps in Supernova 1987A: the H α line (Hanuschik R.W., Spyromilio J., Stathakis R., Kimeswenger S., Gohermann J., Seidensticker K.J., Meurer G.), **261**, 909
- The stability of massive main-sequence stars (Glatzel W., Kiriakidis M.), **262**, 85
- Non-linear radial pulsations of hot extreme helium stars (Fadeyev Yu.A.), **262**, 119
- The modulation of radiation in an electron–positron plasma (Gangadhara R.T., Krishan V., Shukla P.K.), **262**, 151
- The opacity mechanism in B-type stars – I. Unstable modes in β Cephei star models (Dziembowski W.A., Pamyatnykh A.A.), **262**, 204
- On non-radial oscillations of B-type stars (Gautschy A., Saio H.), **262**, 213
- A perturbation particle method for stability studies of stellar systems (Wachlin F.C., Rybicki G.B., Muzzio J.C.), **262**, 1007
- On the stability and pulsations of Wolf–Rayet stars (Glatzel W., Kiriakidis M., Fricke K.J.), **262**, L7
- Stability of massive stars and the Humphreys–Davidson limit (Glatzel W., Kiriakidis M.), **263**, 375
- Are the filaments formed by synchrotron thermal instability bright? (de Gouveia Dal Pino E.M., Opher R.), **263**, 687
- The gravitational stability of a compressed slab of gas (Lubow S.H., Pringle J.E.), **263**, 701**
- The stability of massive stars and its dependence on metallicity and opacity (Kiriakidis M., Fricke K.J., Glatzel W.), **264**, 50**
- Lagrangian theory of gravitational instability of Friedman–Lemaître cosmologies – second-order approach: an improved model for non-linear clustering (Buchert T., Ehlers J.), **264**, 375**
- On the structure and secular stability of plane-parallel stellar objects (Roxburgh I.W.), **264**, 636**
- Relativistic hydrodynamics and gravitational instability revisited (Jackson J.C.), **264**, 729**
- Microtexture in the pulsar radio emission zone (Asseo E.), **264**, 940**
- Pulsating post-asymptotic giant branch stars (Gautschy A.), **265**, 340**
- Dynamical instability for radiating anisotropic collapse (Chan R., Herrera L., Santos N.O.), **265**, 533**
- The opacity mechanism in B-type stars – II. Excitation of high-order g-modes in main-sequence stars (Dziembowski W.A., Moskalik P., Pamyatnykh A.A.), **265**, 588**
- Three-dimensional hydrodynamic simulations of collapsing prolate clouds (Nelson R.P., Papaloizou J.C.B.), **265**, 905**
- Line: formation**
- Ballistic stellar jets from sources with a time-dependent ejection direction (Raga A.C., Cantó J., Biro S.), **260**, 163**
- Population anti-inversion in the $2_{\sigma} \rightarrow 3_{-1}$ E transition of CH₃OH (Peng R.S., Whiteoak J.B.), **260**, 529**
- Observations of the Bowen fluorescence mechanism and charge transfer in planetary nebulae – I (Liu X., Danziger J.), **261**, 465**
- The suppression of pulsar and gamma-ray burst annihilation lines by magnetic photon splitting (Baring M.G.), **262**, 20**
- Observations of the Bowen fluorescence mechanism and charge transfer in planetary nebulae – II (Liu X., Danziger J., Murdin P.), **262**, 699**
- The combined effect of partial redistribution and non-coherent electron scattering on polarized resonance line transfer (Nagendra K.N., Rangarajan K.E., Mohan Rao D.), **262**, 855**
- Infrared spectroscopy of solid CO: the ρ Ophiuchi molecular cloud (Kerr T.H., Adamson A.J., Whittet D.C.B.), **262**, 1047**
- The vibrations of C₆₀H₆₀ and the unidentified infrared emission (Webster A.), **264**, 121**
- The gravities of K giant stars determined from [O i] and OH features (Bonnell J.T., Bell R.A.), **264**, 319**
- Further determinations of the gravities of cool giant stars using Mg I and MgII features (Bonnell J.T., Bell R.A.), **264**, 334**
- Constraints on the outflow in Si106IR from He I 2.058-μm absorption-line and H I emission-line profiles (Drew J.E., Bunn J.C., Hoare M.G.), **265**, 12**
- Resonance-line polarization in a moving medium: solution in the comoving frame with complete frequency redistribution (Sengupta S.), **265**, 513**
- A model for the optical continuum and Balmer emission lines in intermediate polars (Ferrario L., Wickramasinghe D.T.), **265**, 605**
- Line: identification**
- K-band spectroscopy of Be-star X-ray binaries (Everall C., Coe M.J., Norton A.J., Roche P., Unger S.J.), **262**, 57**
- The fullerene C₆₀H₂ and the interstellar extinction (Webster A.), **263**, L55**
- The vibrations of C₆₀H₆₀ and the unidentified infrared emission (Webster A.), **264**, 121**
- Solar identifications of Fe x–Fe xiv based on comparison with beam-foil, tokamak and laser-produced plasma spectra (Jupéen C., Isler R.C., Träbert E.), **264**, 627**
- Further evidence for Raman scattering in RR Tel (van Groningen E.), **264**, 975**
- The extended red emission and the fluorescence of C₆₀ (Webster A.), **264**, L1**
- Large molecules, small radicals and the diffuse interstellar bands (Webster A.), **265**, 421**
- On the affinities of the diffuse interstellar band at 5778 Å (McIntosh A., Webster A.), **265**, 781**
- The infrared (3.2–3.6 μm) spectrum of comet P/Swift–Tuttle: detection of methanol and other organics (Davies J.K., Mumma M.J., Reuter D.C., Hoban S., Weaver H.A., Puxley P.J., Lumsden S.L.), **265**, 1022**

Line: profiles

- Tests for the minihalo model of the Lyman alpha forest (Miralda-Escudé J., Rees M.J.), **260**, 617
High-speed, highly ionized jets, knots and loops in the Trapezium cluster of the Orion nebula (M42, NGC 1976) (Meaburn J., Massey R.M., Raga A.C., Clayton C.A.), **260**, 625
Optical and ultraviolet observations of the star LkHα 264 (Gameiro J.F., Lago M.T.V.T., Lima N.M., Cameron A.C.), **261**, 11
What is the temperature of the Ly α clouds at $z \sim 2$? (Stanek K.Z.), **261**, 52
Clumps in Supernova 1987A: the H α line (Hanuschik R.W., Spyromilio J., Stathakis R., Kimeswenger S., Goehermann J., Seidensticker K.J., Meurer G.), **261**, 909
The chromospheres of late-type stars – II. An atlas of chromospheric lines for selected early-K stars (Thatcher J.D., Robinson R.D.), **262**, 1
Iron K α lines from X-ray photoionized accretion discs (Matt G., Fabian A.C., Ross R.R.), **262**, 179
Prominence activity on the rapidly rotating field star HD 197890 (Jeffries R.D.), **262**, 369
Cold bright matter near supernova 1987A (Cumming R.J., Meikle W.P.S.), **262**, 689
Infrared spectroscopy of solid CO: the ρ Ophiuchi molecular cloud (Kerr T.H., Adamson A.J., Whittet D.C.B.), **262**, 1047
Experimental isotopic shifts in Ni II and Fe II (Rosberg M., Litzén U., Johansson S.), **262**, L1
Extensive, high-speed gas around the Trapezium cluster of the Orion nebula (M42, NGC 1976) (Massey R.M., Meaburn J.), **262**, L48
Heavy mass loss from the symbiotic star AS 304 (Munari U., Buson L.M.), **263**, 267
Monte Carlo simulations of X-ray spectra for internally illuminated spherical matter distributions (Leahy D.A., Creighton J.), **263**, 314
Clumping and small-scale mixing in supernova 1987A (Spyromilio J., Stathakis R.A., Meurer G.R.), **263**, 530
Line-of-sight velocities observed in the inner solar corona during the total solar eclipses of 1980 and 1983 (Raju K.P., Desai J.N., Chandrasekhar T., Ashok N.M.), **263**, 789
An estimate of the central black hole mass in NGC 6814 (Campana S., Stella L.), **264**, 395
Geometrical effects in models of OH/IR-star masers (van Langevelde H.J., Spaans M.), **264**, 597
Studies of telluric CO from Mauna Kea using the James Clerk Maxwell Telescope (Preston K.E., Feldman P.A., Singleton D.L., Amano T., Matthews H.E., Kudo A.), **264**, 673
A new method for obtaining stellar velocity distributions from absorption-line spectra: unresolved Gaussian decomposition (Kuijken K., Merrifield M.R.), **264**, 712
A multi-frequency study of symbiotic stars – III. Simultaneous ultraviolet and optical observations of AX Persei (Ivison R.J., Bode M.F., Evans A., Skopal A., Meaburn J.), **264**, 875
Ha position determination of the binary Circinus X-1 (Duncan A.R., Stewart R.T., Haynes R.F.), **265**, 157
Line-of-sight velocity profiles in spherical galaxies: breaking the degeneracy between anisotropy and mass (Gerhard O.E.), **265**, 213

Magnetic fields

- Observations and modelling of the hard X-ray emission from GX 1 + 4 (Greenhill J.G., Sharma D.P., Dieters S.W.B., Sood R.K., Waldron L., Storey M.C.), **260**, 21
Radio spectral ageing in a random magnetic field (Tribble P.C.), **261**, 57
Magnetic fields in late-type galaxies (Fitt A.J., Alexander P.), **261**, 445
The suppression of pulsar and gamma-ray burst annihilation lines by magnetic photon splitting (Baring M.G.), **262**, 20
Formation of low-mass binaries with millisecond pulsars (Muslimov A.G., Sarna M.J.), **262**, 164
Large-scale non-linear limiting of galactic $\alpha^2\omega$ -dynamos (Nozakura T.), **262**, 970
Radio haloes, cluster mergers, and cooling flows (Tribble P.C.), **263**, 31
Clustering of galaxies by the α -effect (Krishan V.), **264**, 257
Global magnetic patterns in the Milky Way and the Andromeda nebula (Poezd A., Shukurov A., Sokoloff D.), **264**, 285

A faint polarized arc near the supernova remnant MSH 15–52 (G 320.4–1.2) (Milne D.K., Caswell J.L., Haynes R.F.), **264**, 853
Evolution of globular cluster pulsars: predictions (Michel F.C.), **265**, 449

MHD

- Modelling of X-ray emission from WR + O binary systems (Myasnikov A.V., Zhekov S.A.), **260**, 221
A model for the bilateral interaction between dynamo action and star formation in galactic discs (Nozakura T.), **260**, 861
The steady-state structure of relativistic magnetic jets (Dubal M.R., Pantano O.), **261**, 203
Studies in mid-infrared spectropolarimetry – I. Magnetic fields, discs and flows in star formation regions (Aitken D.K., Wright C.M., Smith C.H., Roche P.F.), **262**, 456
Sulphur-bearing molecules as tracers of shocks in interstellar clouds (Pineau des Forets G., Roueff E., Schilke P., Flower D.R.), **262**, 915
Thermo-centrifugal wind from a rotating magnetic dipole (Washimi H., Shibata S.), **262**, 936
Large-scale non-linear limiting of galactic $\alpha^2\omega$ -dynamos (Nozakura T.), **262**, 970
Magnetic reconnection in the disc and halo (Kahn F.D., Brett L.), **263**, 37
Global magnetic patterns in the Milky Way and the Andromeda nebula (Poezd A., Shukurov A., Sokoloff D.), **264**, 285
On magnetic fields, stellar coronae and dynamo action in late-type dwarfs (Montesinos B., Jordan C.), **264**, 900
Microtexture in the pulsar radio emission zone (Asseo E.), **264**, 940
Galactic dynamos and density wave theory – II. An alternative treatment for strong non-axisymmetry (Subramanian K., Mestel L.), **265**, 649
Gamma-ray bursts from blast waves around Galactic neutron stars (Begelman M.C., Mészáros P., Rees M.J.), **265**, L13

Masers

- Methanol masers at 12 GHz (Caswell J.L., Gardner F.F., Norris R.P., Wellington K.J., McCutcheon W.H., Peng R.S.), **260**, 425
Population anti-inversion in the $2_{0,0}$ – 3_{-1} E transition of CH₃OH (Peng R.S., Whiteoak J.B.), **260**, 529
Detection of 35 new 5_{-1} – 6_0 A⁺-methanol masers towards IRAS sources (Schutte A.J., van der Walt D.J., Gaylard M.J., MacLeod G.C.), **261**, 783
New detections of 6.6-GHz 5_{-1} – 6_0 A⁺-methanol emission towards southern hydroxyl masers (Gaylard M.J., MacLeod G.C.), **262**, 43
Long-term variability in 12.2-GHz $2_{0,0}$ – 3_{-1} E-methanol masers and new detections towards 6.6-GHz 5_{-1} – 6_0 A⁺-methanol masers (MacLeod G.C., Gaylard M.J., Kemball A.J.), **262**, 343
Geometrical effects in models of OH/IR-star masers (van Langevelde H.J., Spaans M.), **264**, 597

Line strengths of methanol by the internal axis method (Cragg D.M., Mekhtiev M.A., Bettens R.P.A., Godfrey P.D., Brown R.D.), **264**, 769

A search for water and mainline OH masers from OH/IR star colour mimics (Lewis B.M., Engels D.), **265**, 161

Molecular data

- Calculated vibrational excitation rates for electron-H₂⁺ collisions (Sarpal B.K., Tennyson J.), **263**, 909
Line strengths of methanol by the internal axis method (Cragg D.M., Mekhtiev M.A., Bettens R.P.A., Godfrey P.D., Brown R.D.), **264**, 769
The infrared (3.2–3.6 μ m) spectrum of comet P/Swift–Tuttle: detection of methanol and other organics (Davies J.K., Mumma M.J., Reuter D.C., Hoban S., Weaver H.A., Puxley P.J., Lumsden S.L.), **265**, 1022

Molecular processes

- The formation of H₂ on interstellar dust (Duley W.W., Williams D.A.), **260**, 37
Hydrocarbons from shocked carbonaceous dust (Taylor S.D., Williams D.A.), **260**, 280
Infrared emission from hydrogenated amorphous carbon and amorphous carbon grains in the interstellar medium (Duley W.W., Jones A.P., Taylor S.D., Williams D.A.), **260**, 415
On the origin of NH in diffuse interstellar clouds (Wagenblast R., Williams D.A., Millar T.J., Nejad L.A.M.), **260**, 420

- Desorption processes in molecular clouds: quasi-steady-state chemistry (Willacy K., Williams D.A.), **260**, 635
- Thermal evolution of cometary nuclei by radioactive heating and possible formation of organic chemicals (Yabushita S.), **260**, 819
- New gas-grain chemical models of quiescent dense interstellar clouds: the effects of H₂ tunnelling reactions and cosmic ray induced desorption (Hasegawa T.I., Herbst E.), **261**, 83
- Hydrogen molecules in quasars broad-line regions (Crossa M., Weisheit J.C.), **262**, 359
- Models of the σ Per diffuse interstellar cloud (Heck E.L., Flower D.R., Le Bourlot J., Pineau des Forets G., Roueff E.), **262**, 795
- A theory of the diffuse interstellar bands (Webster A.), **262**, 831
- Alternative routes to deuteration in dark clouds (Howe D.A., Millar T.J.), **262**, 868
- Sulphur-bearing molecules as tracers of shocks in interstellar clouds (Pineau des Forets G., Roueff E., Schilke P., Flower D.R.), **262**, 915
- Formaldehyde in oxygen-rich circumstellar envelopes (Millar T.J., Olofsson H.), **262**, L55
- Interstellar chemistry and the tight far-infrared-radio correlation (Bettens R.P.A., Brown R.D., Cragg D.M., Dickinson C.J., Godfrey P.D.), **263**, 93
- Vibrational excitation of products of dissociative recombination (Bates D.R.), **263**, 369
- On the carriers of the diffuse interstellar bands (Webster A.), **263**, 385
- Three-phase chemical models of dense interstellar clouds: gas, dust particle mantles and dust particle surfaces (Hasegawa T.I., Herbst E.), **263**, 589
- Grain mantles in the Taurus dark cloud (Smith R.G., Sellgren K., Brooke T.Y.), **263**, 749
- Chemisorption of atomic H, C, N and O on a cluster-model graphite surface (Fromherz T., Mendoza C., Ruette F.), **263**, 851
- Calculated vibrational excitation rates for electron-H₂⁺ collisions (Sarpal B.K., Tennyson J.), **263**, 909
- Gas-grain interactions and the E/A ratio of methyl cyanide in TMC-1 (Willacy K., Williams D.A., Minh Y.C.), **263**, L40
- The fullerene C₆₀H₆₀ and the interstellar extinction (Webster A.), **263**, L55
- The vibrations of C₆₀H₆₀ and the unidentified infrared emission (Webster A.), **264**, 121
- Line strengths of methanol by the internal axis method (Cragg D.M., Mekhtiev M.A., Bettens R.P.A., Godfrey P.D., Brown R.D.), **264**, 769
- The ion chemistry of H_nC₃O⁺, C₃O₂⁺ and C₃O⁺ in dense interstellar clouds: an experimental study (Petrie S., Bettens R.P.A., Freeman C.G., McEwan M.J.), **264**, 862
- Large molecules, small radicals and the diffuse interstellar bands (Webster A.), **265**, 421
- Excited hydrogen and the formation of molecular hydrogen via associative ionization - I. Physical processes and outflows from young stellar objects (Rawlings J.M.C., Drew J.E., Barlow M.J.), **265**, 968
- Nuclear reactions, nucleosynthesis, abundances**
- Massive Thorne-Zytkow objects: structure and nucleosynthesis (Cannon R.C.), **263**, 817
- Plasmas**
- Physical conditions in the intergalactic medium (Subrahmanyam R., Saripalli L.), **260**, 908
- The modulation of radiation in an electron-positron plasma (Gangadhara R.T., Krishan V., Shukla P.K.), **262**, 151
- Collision strengths and rate coefficients for electron impact excitation in He I: an extrapolation of *R*-matrix calculations to higher electron impact energies (Lanzaflame A.C., Tully J.A., Berrington K.A., Dufton P.L., Byrne P.B., Burgess A.), **264**, 402
- Solar identifications of Fe x-Fe xiv based on comparison with beam-foil, tokamak and laser-produced plasma spectra (Jupén C., Isler R.C., Träbert E.), **264**, 627
- Polarization**
- Optical, infrared, radio and polarization imaging of the high-redshift galaxy IRAS F10214 + 4724 (Lawrence A., Rowan-Robinson M., Oliver S., Taylor A., McMahon R.G., Broadhurst T., Scarrott S.M., Rolph C.D., Draper P.W., Ellis R.S., Tadhunter C., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Efstrathou G.P., Saunders W.S.), **260**, 28
- Imaging polarimetry of the bipolar nebula Parsamyan 22 (Scarrott S.M., Draper P.W., Tadhunter C.N.), **260**, 171
- The scattering of polarized radiation through optically thin circumstellar envelopes (Fox G.K.), **260**, 513
- A polarimetric investigation of a magnetically driven Be star wind (Fox G.K.), **260**, 525
- On the negative polarization of light scattered by subwavelength regolithic grains (Kolokolova L.O., Mishchenko M.I., Wolff M.), **260**, 550
- X-ray polarization properties of a centrally illuminated accretion disc (Matt G.), **260**, 663
- Cyclotron humps in AM Her systems - V. Two poles in DP Leo (Cropper M., Wickramasinghe D.T.), **260**, 696
- Spectropolarimetry of the ultraluminous infrared galaxy IRAS 110548-1131 (Young S., Hough J.H., Bailey J.A., Axon D.J., Ward M.J.), **260**, L1
- X-ray polarization in the two-phase model for AGN and X-ray binaries (Haardt F., Matt G.), **261**, 346
- Radio polarization in the supernova remnant Puppis A (G 260.4-3.4) (Milne D.K., Stewart R.T., Haynes R.F.), **261**, 366
- Mean pulse polarization of southern pulsars at 1560 MHz (Wu Xinji, Manchester R.N., Lyne A.G., Qiao Guojun), **261**, 630
- The illumination of the GGD 30 nebulosity (Foley N.B., Gledhill T.M., Scarrott S.M., Wolstencroft R.D.), **262**, 175
- The nature of the optical nebulosity surrounding the star RNO 91 in the L43 dark cloud (Scarrott S.M., Draper P.W., Tadhunter C.N.), **262**, 306
- Studies in mid-infrared spectropolarimetry - I. Magnetic fields, discs and flows in star formation regions (Aitken D.K., Wright C.M., Smith C.H., Roche P.F.), **262**, 456
- The combined effect of partial redistribution and non-coherent electron scattering on polarized resonance line transfer (Nagendra K.N., Rangarajan K.E., Mohan Rao D.), **262**, 855
- The optical polarization of the low-redshift radio galaxies 3CR 33, 305, 321 and 459 (Draper P.W., Scarrott S.M., Tadhunter C.N.), **262**, 1029
- Evidence for an obscured broad-line region in the early-type radio galaxy IC 5063 (Inglis M.D., Brindle C., Hough J.H., Young S., Axon D.J., Bailey J.A., Ward M.J.), **263**, 895
- Some aspects of illuminated model atmosphere theory as applied to close binary systems (Cranmer S.R.), **263**, 989
- RE0751 + 14, the first 'intermediate' polar? (Rosen S.R., Mittaz J.P.D., Hakala P.J.), **264**, 171
- Optical polarization in distant radio galaxies (Cimatti A., di Serego Alighieri S., Fosbury R.A.E., Salvati M., Taylor D.), **264**, 421
- The theoretical polarization from axisymmetric circumstellar envelopes with constant scattering optical depth (Fox G.K.), **264**, 565
- H α imaging polarimetry of the protoplanetary nebula M2-9 (Scarrott R.M.J., Scarrott S.M., Wolstencroft R.D.), **264**, 740
- X-ray photoionized accretion discs: UV and X-ray continuum spectra and polarization (Matt G., Fabian A.C., Ross R.R.), **264**, 839
- A faint polarized arc near the supernova remnant MSH 15-52 (G 320.4-1.2) (Milne D.K., Caswell J.L., Haynes R.F.), **264**, 853
- Imaging polarimetry of the starburst galaxy NGC 1808: another M82? (Scarrott S.M., Draper P.W., Stockdale D.P., Wolstencroft R.D.), **264**, L7
- Multicolour polarization and CO observations towards a dark filament in Musca (Arnal E.M., Morras R., Rizzo J.R.), **265**, 1
- Resonance-line polarization in a moving medium: solution in the comoving frame with complete frequency redistribution (Sengupta S.), **265**, 513
- Radiation mechanisms: gravitational**
- The merger rate of neutron star and black hole binaries (Tutukov A.V., Yungelson L.R.), **260**, 675
- Gravitational waves from mini-creation events (Das Gupta P., Narlikar J.V.), **264**, 489
- Radiation mechanisms: miscellaneous**
- Observations and modelling of the hard X-ray emission from GX 1 + 4 (Greenhill J.G., Sharma D.P., Dieters S.W.B., Sood R.K., Waldron L., Storey M.C.), **260**, 21
- Cyclotron humps in AM Her systems - V. Two poles in DP Leo (Cropper M., Wickramasinghe D.T.), **260**, 696
- VLBI observations of a strong radio flare in HR 1099 (Trigilio C., Umana G., Migenes V.), **260**, 903

- Radio spectral ageing in a random magnetic field (Tribble P.C.), **261**, 57
 Cold dust around high-redshift quasars (Andreani P., La Franca F., Cristiani S.), **261**, L35
 The suppression of pulsar and gamma-ray burst annihilation lines by magnetic photon splitting (Baring M.G.), **262**, 20
 Interpretation of very high-energy gamma-rays from the direction of the Crab nebula (Bogovalov S.V., Kotov Yu.D.), **262**, 75
 The modulation of radiation in an electron-positron plasma (Gangadhara R.T., Krishan V., Shukla P.K.), **262**, 151
 The infrared-millimetre-centimetre flaring behaviour of the quasar 3C 273 (Robson E.I., Litchfield S.J., Gear W.K., Hughes D.H., Sandell G., Courvoisier T.J.-L., Paltani S., Valtaoja E., Teräsranta H., Tornikoski M., Steppe H., Wright M.C.H.), **262**, 249
 Detection of cyclotron emission features in the infrared spectrum of ST LMi (Ferrario L., Bailey J., Wickramasinghe D.T.), **262**, 285
 Anisotropic induced Compton scattering - constraints on models of active galactic nuclei (Coppi P., Blandford R.D., Rees M.J.), **262**, 603
 Are the filaments formed by synchrotron thermal instability bright? (de Gouveia Dal Pino E.M., Opher R.), **263**, 687
 On re-acceleration, pairs and the high-energy spectrum of AGN and Galactic black hole candidates (Ghisellini G., Haardt F., Fabian A.C.), **263**, L9
 Electron-photon cascading of very high-energy gamma-rays in the infrared background (Protheroe R.J., Stanev T.), **264**, 191
 Microtexture in the pulsar radio emission zone (Asseo E.), **264**, 940
 Geminga: origins of its X-ray and gamma-ray emission (Harding A.K., Oezernoy L.M., Usov V.V.), **265**, 921
- Radiativ transfer**
- The scattering of polarized radiation through optically thin circumstellar envelopes (Fox G.K.), **260**, 513
 Population anti-inversion in the $2\sigma \rightarrow 3_{-1}E$ transition of CH₃OH (Peng R.S., Whiteoak J.B.), **260**, 529
 The ionization state of the winds from cataclysmic variables without classical boundary layers (Hoare M.G., Drew J.E.), **260**, 647
 X-ray polarization properties of a centrally illuminated accretion disc (Matt G.), **260**, 663
 Compensation of the pulse profiles of pulsars for interstellar scattering (Kuzmin A.D., Izvekova V.A.), **260**, 724
 A model for the circumstellar envelope of WX Ser (Griffin I.P.), **260**, 831
 Radio variability in a complete sample of extragalactic sources at 151 MHz (Riley J.M.), **260**, 893
 The effects of photoionization on X-ray reflection spectra in active galactic nuclei (Ross R.R., Fabian A.C.), **261**, 74
 X-ray polarization in the two-phase model for AGN and X-ray binaries (Haardt F., Matt G.), **261**, 346
 Hydrogen molecules in quasar broad-line regions (Crosas M., Weisheit J.C.), **262**, 359
 Far-infrared emission from dust in the Bok globule Barnard 335 (De Luca M., Blanco A., Orofino V.), **262**, 805
 The combined effect of partial redistribution and non-coherent electron scattering on polarized resonance line transfer (Nagendra K.N., Rangarajan K.E., Mohan Rao D.), **262**, 855
 The random magnetic field in the Galaxy (Ohno H., Shibata S.), **262**, 953
 Response functions as diagnostics of the broad-line region in active galactic nuclei (Goad M.R., O'Brien P.T., Gondhalekar P.M.), **263**, 149
 Monte Carlo simulations of X-ray spectra for internally illuminated spherical matter distributions (Leahy D.A., Creighton J.), **263**, 314
 Multigrain dust cloud models of starburst and Seyfert galaxies (Rowan-Robinson M., Efstathiou A.), **263**, 675
 Some aspects of illuminated model atmosphere theory as applied to close binary systems (Crammer S.R.), **263**, 989
 The stability of massive stars and its dependence on metallicity and opacity (Kirakidis M., Fricke K.J., Glatzel W.), **264**, 50
 Radiative transfer in a clumpy medium - I. Analytical Markov-process solution for an *N*-phase slab (Hobson M.P., Scheuer P.A.G.), **264**, 145
 Radiative transfer in a clumpy medium - II. The mega-grains approximation for two-phase models (Hobson M.P., Padman R.), **264**, 161
- Electron-photon cascading of very high-energy gamma-rays in the infrared background (Protheroe R.J., Stanev T.), **264**, 191
 The theoretical polarization from axisymmetric circumstellar envelopes with constant scattering optical depth (Fox G.K.), **264**, 565
 Geometrical effects in models of OH/IR-star masers (van Langevelde H.J., Spaans M.), **264**, 597
 On the structure and secular stability of plane-parallel stellar objects (Roxburgh I.W.), **264**, 636
 A model atmosphere investigation of the effect of irradiation on the secondary star in a dwarf nova (Brett J.M., Smith R.C.), **264**, 641
 X-ray photoionized accretion discs: UV and X-ray continuum spectra and polarization (Matt G., Fabian A.C., Ross R.R.), **264**, 839
 Resonance-line polarization in a moving medium: solution in the comoving frame with complete frequency redistribution (Sengupta S.), **265**, 513
 Dynamical instability for radiating anisotropic collapse (Chan R., Herrera L., Santos N.O.), **265**, 533
 The opacity mechanism in B-type stars - II. Excitation of high-order g-modes in main-sequence stars (Dziembowski W.A., Moskalik P., Pamyatnykh A.A.), **265**, 588
 On determining the wind velocity profiles of early-type stars in massive X-ray binary systems (Stevens I.R.), **265**, 601
 Radiative reprocessing by blobs immersed in the X-ray-emitting regions of AGN (Bond I.A., Matsuoaka M.), **265**, 619
 Pulsar velocities and the scaleheight of scattering in the Galaxy (Harrison P.A., Lyne A.G.), **265**, 778
 Fitting and smoothing of opacity data (Seaton M.J.), **265**, L25
 Detection of the Sunyaev-Zel'dovich effect in Abell 773 (Grainge K., Jones M., Pooley G., Saunders R., Edge A.), **265**, L57
- Relativity**
- X-ray polarization properties of a centrally illuminated accretion disc (Matt G.), **260**, 663
 The steady-state structure of relativistic magnetic jets (Dubal M.R., Pantano O.), **261**, 203
 Reversal of force and energy coupling around a rotating black hole (Chakrabarti S.K.), **261**, 625
 Correction to geometric extension through Schwarzschild $r=0$ (Lynden-Bell D., Katz J., Hellaby C.), **262**, 325
 Relativistic tidal impulse (Mashhoon B., McClune J.C.), **262**, 881
 Addendum: Anisotropic spheres in general relativity (Bondi Sir Hermann), **262**, 1088
 Non-equilibrium motions in galaxies and gravitational redshift (Stiavelli M., Setti G.), **262**, L51
 Collimation effects of the Kerr field (Bičák J., Semerák O., Hadrava P.), **263**, 545
 Hydrodynamics of relativistic fireballs (Piran T., Shemi A., Narayan R.), **263**, 861
 Cosmic ray acceleration at relativistic shock waves in the presence of oblique magnetic fields with finite-amplitude perturbations (Ostrowski M.), **264**, 248
 Relativistic hydrodynamics and gravitational instability revisited (Jackson J.C.), **264**, 729
 Relativistic discs and flat galaxy models (Bičák J., Lynden-Bell D., Pichon C.), **265**, 126
 A star orbiting around a supermassive rotating black hole: free motion and corrections due to star-disc collisions (Vokrouhlický D., Karas V.), **265**, 365
- Scattering**
- Optical, infrared, radio and polarization imaging of the high-redshift galaxy IRAS F10214 + 4724 (Lawrence A., Rowan-Robinson M., Oliver S., Taylor A., McMahon R.G., Broadhurst T., Scarrott S.M., Rolph C.D., Draper P.W., Ellis R.S., Tadhunter C., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Efstathiou G.P., Saunders W.S.), **260**, 28
 On the negative polarization of light scattered by subwavelength regolithic grains (Kolokolova L.O., Mishchenko M.I., Wolff M.), **260**, 550
 Compensation of the pulse profiles of pulsars for interstellar scattering (Kuzmin A.D., Izvekova V.A.), **260**, 724
 The effects of photoionization on X-ray reflection spectra in active galactic nuclei (Ross R.R., Fabian A.C.), **261**, 74
 The combined effect of partial redistribution and non-coherent electron scattering on polarized resonance line transfer (Nagendra K.N., Rangarajan K.E., Mohan Rao D.), **262**, 855

- The optical polarization of the low-redshift radio galaxies 3CR 33, 305, 321 and 459 (Draper P.W., Scarrott S.M., Tadhunter C.N.), 262, 1029
- Monte Carlo simulations of X-ray spectra for internally illuminated spherical matter distributions (Leahy D.A., Creighton J.), 263, 314
- Luminosity dependence of optical activity and alignments in radio galaxies (Dunlop J.S., Peacock J.A.), 263, 936
- Radiative transfer in a clumpy medium – I. Analytical Markov-process solution for an *N*-phase slab (Hobson M.P., Scheuer P.A.G.), 264, 145
- Radiative transfer in a clumpy medium – II. The mega-grains approximation for two-phase models (Hobson M.P., Padman R.), 264, 161
- Optical polarization in distant radio galaxies (Cimatti A., di Serego Alighieri S., Fosbury R.A.E., Salvati M., Taylor D.), 264, 421
- The theoretical polarization from axisymmetric circumstellar envelopes with constant scattering optical depth (Fox G.K.), 264, 565
- H α imaging polarimetry of the protoplanetary nebula M2–9 (Scarrott R.M.J., Scarrott S.M., Woltscroft R.D.), 264, 740
- Further evidence for Raman scattering in RR Tel (van Groningen E.), 264, 975
- On the nature of the blue light in central cluster galaxies (Crawford C.S., Fabian A.C.), 265, 431
- Pulsar velocities and the scaleheight of scattering in the Galaxy (Harrison P.A., Lyne A.G.), 265, 778
- Extreme-ultraviolet and low-energy X-ray scattering from interstellar dust (Cruise A.M.), 265, 881
- Shock waves**
- Hydrocarbons from shocked carbonaceous dust (Taylor S.D., Williams D.A.), 260, 280
- The steady-state structure of relativistic magnetic jets (Dubal M.R., Pantano O.), 261, 203
- Mass-loaded astronomical flows – IV. A time-dependent hydrodynamic model of an observed clumpy wind-blown bubble, RCW 58 (Arthur S.J., Dyson J.E., Hartquist T.W.), 261, 425
- Mass-loaded astronomical flows – V. Tails: intermediate-scale structures in flowing clumpy media (Dyson J.E., Hartquist T.W., Biro S.), 261, 430
- Supernova remnants in plane-stratified media: predictions for H α -emitting regions (Arthur S.J., Faheem S.A.E.G.), 261, 681
- The Type II supernova 1988Z in MCG +03–28–022: increasing evidence of interaction of supernova ejecta with a circumstellar wind (Turatto M., Cappellaro E., Danziger I.J., Benetti S., Gouffons C., Della Valle M.), 262, 128
- Discovery of two Herbig–Haro objects in the small dark cloud D291.4–0.2 in Carina (Ogura K.), 262, 735
- Steady flow on a conveyor belt: causal viscosity and shear shocks (Syer D., Narayan R.), 262, 749
- Models of the ρ Per diffuse interstellar cloud (Heck E.L., Flower D.R., Le Bourlot J., Pineau des Forets G., Roueff E.), 262, 795
- Enhanced star formation in the cometary globules of the Gum nebula (Bhatt H.C.), 262, 812
- Sulphur-bearing molecules as tracers of shocks in interstellar clouds (Pineau des Forets G., Roueff E., Schilke P., Flower D.R.), 262, 915
- The gravitational stability of a compressed slab of gas (Lubow S.H., Pringle J.E.), 263, 701
- Cosmic ray acceleration at relativistic shock waves in the presence of oblique magnetic fields with finite-amplitude perturbations (Ostrowski M.), 264, 248
- Machine-gun jets from time-dependent sources (Raga A.C., Biro S.), 264, 758
- Gamma-ray bursts from blast waves around Galactic neutron stars (Begelman M.C., Mészáros P., Rees M.J.), 265, L13
- Turbulence**
- Clustering of galaxies by the α -effect (Krishan V.), 264, 257
- Microtexture in the pulsar radio emission zone (Asseo E.), 264, 940

Astronomical instrumentation, methods and techniques

Artificial satellites, space probes

Impact probabilities on artificial satellites for the 1993 Perseid meteoroid stream (Beech M., Brown P.), 262, L35

Atmospheric effects

Broad-band spectroscopy with the James Clerk Maxwell Telescope using a polarizing Fourier transform spectrometer (Naylor D.A., Clark T.A., Davis G.R., Duncan W.D., Tompkins G.J.), 260, 875

Studies of telluric CO from Mauna Kea using the James Clerk Maxwell Telescope (Preston K.E., Feldman P.A., Singleton D.L., Amano T., Matthews H.E., Kudo A.), 264, 673

The effects of seeing on the photometric properties of elliptical galaxies (Saglia R.P., Bertschinger E., Bagley G., Burstein D., Colless M., Davies R.L., McMahan R.K., Jr, Wegner G.), 264, 961

Instrumentation: spectrographs

Telescope in fibre-fed spectrographs (Wynne C.G.), 260, 307

Broad-band spectroscopy with the James Clerk Maxwell Telescope using a polarizing Fourier transform spectrometer (Naylor D.A., Clark T.A., Davis G.R., Duncan W.D., Tompkins G.J.), 260, 875

A new form of atmospheric dispersion corrector (Wynne C.G.), 262, 741

A three-lens combined field and dispersion corrector giving telecentric imagery on optics fibres (Wynne C.G.), 263, 641

A four-lens combined field and dispersion corrector giving telecentric imagery over a field diameter of 1.5' (Wynne C.G.), 265, 747

Methods: analytical

Designer basis functions for potentials in galactic dynamics (Saha P.), 262, 1062

On the potentials of galactic discs (Cuddeford P.), 262, 1076

A fluctuation-dissipation approach to dynamical friction in non-homogeneous backgrounds (Maoz E.), 263, 75

Lagrangian theory of gravitational instability of Friedman–Lemaître cosmologies – second-order approach: an improved model for non-linear clustering (Buchert T., Ehlers J.), 264, 375

Methods: data analysis

Wavelet analysis of the multifractal character of the galaxy distribution (Martinez V.J., Paredes S., Saar E.), 260, 365

Selection effects or high opacity? Understanding the surface brightness distribution of inclined disc galaxies (Davies J.I., Phillips S., Boyce P.J., Disney M.J.), 260, 491

The multifractal behaviour of hierarchical density distributions (Borgani S.), 260, 537

A deep search for pulsed emission from Cassiopeia A (Woan G., Duffett-Smith P.J.), 260, 693

Compensation of the pulse profiles of pulsars for interstellar scattering (Kuzmin A.D., Izvekova V.A.), 260, 724

AGN X-ray light curves – shot noise or low-dimensional attractor? (Lehto H.J., Czerny B., McHardy I.M.), 261, 125

Improved methods for power spectrum modelling of red noise (Padakas I.E., Lawrence A.), 261, 612

The distribution of low-mass stars in the Galactic disc (Kroupa P., Tout C.A., Gilmore G.), 262, 545

A simple analysis of period noise in binary X-ray pulsars (de Kool M., Anzer U.), 262, 726

Transfer function analysis of ultraviolet observations of NGC 5548 (Koen C.), 262, 823

The analysis of indexed astronomical time series – I. Basic methods (Koen C., Lombard F.), 263, 287

The analysis of indexed astronomical time series – II. The O–C (observed – calculated) technique reconsidered (Lombard F., Koen C.), 263, 309

Galaxy redshifts: improved techniques (Heavens A.F.), 263, 735

VLA observations of a complete sample of core-dominated radio sources (Murphy D.W., Browne I.W.A., Perley R.A.), 264, 298

Spherical harmonic analysis of the 2-Jy IRAS galaxy redshift survey (Scharf C.A., Lahav O.), 264, 439

Generalized singular value decomposition analysis of helioseismic inversions (Christensen-Dalsgaard J., Hansen P.C., Thompson M.J.), 264, 541

Morphological classification of galaxies using simple photometric parameters (Doi M., Fukugita M., Okamura S.), 264, 832

The effects of seeing on the photometric properties of elliptical galaxies (Saglia R.P., Bertschinger E., Bagley G., Burstein D., Colless M., Davies R.L., McMahan R.K., Jr, Wegner G.), 264, 961

- A new strategy for 2D inversion for solar rotation (Sekii T.), **264**, 1018
- Rotational velocities for T Tauri stars with strong emission lines (Gameiro J.F., Lago M.T.V.T.), **265**, 359
- Previously unresolved *IRAS* sources in the ρ Oph A cloud (Ward-Thompson D.), **265**, 493
- A procedure for the calculation of background in images (Almoznino E., Loinger F., Brosch N.), **265**, 641
- Reconstruction analysis – I. Redshift-space deprojection in the quasi-non-linear regime (Taylor A.N., Rowan-Robinson M.), **265**, 809
- Source analysis on radio maps from the Cambridge Low Frequency Synthesis Telescope (Waldrum E.M., Riley J.M.), **265**, 853
- The Edinburgh–Durham Southern Galaxy Catalogue – VI. The stability of $w(\theta)$ (Nichol R.C., Collins C.A.), **265**, 867
- The void probability function for flux-limited samples (Watson J.M., Rowan-Robinson M.), **265**, 1027
- Seismic measurements of the helium abundance and the depth of stellar convection zones (Kosovichev A.G.), **265**, 1053
- On the Galactic distribution of gamma-ray bursts (Rutledge R.E., Lewin W.H.G.), **265**, L51
- Methods: numerical**
- The multifractal behaviour of hierarchical density distributions (Borgani S.), **260**, 537
- The steady-state structure of relativistic magnetic jets (Dubal M.R., Pantano O.), **261**, 203
- A new tree code method for simulation of planetesimal dynamics (Richardson D.C.), **261**, 396
- Microlensing light curves: a new and efficient numerical method (Lewis G.F., Miralda-Escudé J., Richardson D.C., Wambsganss J.), **261**, 647
- The density structure of a galaxy influenced by a massive companion (Namboodiri P.M.S., Kochhar R.K.), **261**, 855
- The merging history of dark matter haloes in a hierarchical universe (Kauffmann G., White S.D.M.), **261**, 921
- The Geminid meteor stream and asteroid 3200 Phaethon (Williams I.P., Wu Z.), **262**, 231
- A perturbation particle method for stability studies of stellar systems (Wachlin F.C., Rybicki G.B., Muzzio J.C.), **262**, 1007
- N-body simulations with perturbation particles – I. Method and tests (Leeuw F., Combes F., Binney J.), **262**, 1013
- Massive Thorne–Żytkow objects: structure and nucleosynthesis (Cannon R.C.), **263**, 817
- A three-dimensional smoothed particle hydrodynamics simulation of the active phase of SS Cyg-type discs and its implications for the mass transfer burst model (Lanzafame G., Belvedere G., Molteni D.), **263**, 839
- Can a local bulge be differentiated? (Hernández-Pajares M.), **264**, 1
- Self-avoiding random walks as a probe of large-scale structure in the Universe (Baugh C.), **264**, 87
- Mergers of collisionless systems (Pearce F.R., Thomas P.A., Couchman H.M.P.), **264**, 497
- 3D structure of truncated accretion discs in close binaries (Meglicki Z., Wickramasinghe D., Bicknell G.V.), **264**, 691
- A new method for obtaining stellar velocity distributions from absorption-line spectra: unresolved Gaussian decomposition (Kuijken K., Merrifield M.R.), **264**, 712
- Multiple fragmentation in collapsing protostars (Burkert A., Bodenheimer P.), **264**, 798
- The Perseid meteor shower at the current time (Wu Z., Williams I.P.), **264**, 980
- N-body simulations of star-disc captures in globular clusters (Murray S.D., Clarke C.J.), **265**, 169
- Simulations of dissipative galaxy formation in hierarchically clustering universes – I. Tests of the code (Navarro J.F., White S.D.M.), **265**, 271
- Pulsating post-asymptotic giant branch stars (Gautschy A.), **265**, 340
- Galaxy formation and the peaks formalism (Katz N., Quinn T., Gelb J.M.), **265**, 689
- A non-parametric and scale-independent method for cluster analysis – I. The univariate case (Pisani A.), **265**, 706
- Reconstruction analysis – I. Redshift-space deprojection in the quasi-non-linear regime (Taylor A.N., Rowan-Robinson M.), **265**, 809
- Three-dimensional hydrodynamic simulations of collapsing prolate clouds (Nelson R.P., Papaloizou J.C.B.), **265**, 905
- Fitting and smoothing of opacity data (Seaton M.J.), **265**, L25
- Methods: observational**
- The structure and motion of the Crab nebula jet (Fesen R.A., Staker B.), **263**, 69
- A search for arcmin-scale anisotropy in the cosmic microwave background (Subrahmanyan R., Ekers R.D., Sinclair M., Silk J.), **263**, 416
- Studies of telluric CO from Mauna Kea using the James Clerk Maxwell Telescope (Preston K.E., Feldman P.A., Singleton D.L., Amato T., Matthews H.E., Kudo A.), **264**, 673
- Methods: statistical**
- The bivariate diameter-magnitude function of galaxies in the ESO-LV catalogue (Sodré L., Jr, Lahav O.), **260**, 285
- Topology in two dimensions – III. Modelling projected galaxy catalogues (Davies A., Coles P.), **260**, 553
- The recognition of BL Lac objects and their statistical properties (Browne I.W.A., Marchá M.J.M.), **261**, 795
- The analysis of indexed astronomical time series – I. Basic methods (Koen C., Lombard F.), **263**, 287
- Pulsar statistics: the birthrate and initial spin periods of radio pulsars (Lorimer D.R., Bailes M., Dewey R.J., Harrison P.A.), **263**, 403
- Galaxy redshifts: improved techniques (Heavens A.F.), **263**, 735
- Long distance correlations in the galaxy distribution and the nature of dark matter (Jørgensen H.E., Kotok E., Naselsky P., Novikov I.), **265**, 261
- The noise in the 35-d cycle of Her X-1 (Baykal A., Boynton P.E., Deeter J.E., Scott D.M.), **265**, 347
- Techniques: image processing**
- A procedure for the calculation of background in images (Almoznino E., Loinger F., Brosch N.), **265**, 641
- Techniques: interferometric**
- VLBI observations of a strong radio flare in HR 1099 (Trigilio C., Umana G., Migenes V.), **260**, 903
- A power spectrum analysis of the angular scale of Galactic neutral hydrogen emission towards $l=140^\circ$, $b=0^\circ$ (Green D.A.), **262**, 327
- Source analysis on radio maps from the Cambridge Low Frequency Synthesis Telescope (Waldrum E.M., Riley J.M.), **265**, 853
- Techniques: photometric**
- The Type II supernova 1988Z in MCG + 03–28–022: increasing evidence of interaction of supernova ejecta with a circumstellar wind (Turatto M., Cappellaro E., Danziger I.J., Benetti S., Gouffet C., Della Valle M.), **262**, 128
- The chemical inhomogeneity of M13 (Folgheraiter E.L., Penny A.J., Griffiths W.K.), **264**, 991
- Galaxy surface photometry with Kodak Technical Pan film (Phillipps S., Parker Q.A.), **265**, 385
- Techniques: spectroscopic**
- Broad-band spectroscopy with the James Clerk Maxwell Telescope using a polarizing Fourier transform spectrometer (Naylor D.A., Clark T.A., Davis G.R., Duncan W.D., Tompkins G.J.), **260**, 875
- The Type II supernova 1988Z in MCG + 03–28–022: increasing evidence of interaction of supernova ejecta with a circumstellar wind (Turatto M., Cappellaro E., Danziger I.J., Benetti S., Gouffet C., Della Valle M.), **262**, 128
- A new form of atmospheric dispersion corrector (Wynne C.G.), **262**, 741
- Response functions as diagnostics of the broad-line region in active galactic nuclei (Goad M.R., O'Brien P.T., Gondhalekar P.M.), **263**, 149
- A three-lens combined field and dispersion corrector giving telecentric imagery on optics fibres (Wynne C.G.), **263**, 641
- Solar identifications of Fe x–Fe xiv based on comparison with beam-foil, tokamak and laser-produced plasma spectra (Jupén C., Isler R.C., Träbert E.), **264**, 627
- A four-lens combined field and dispersion corrector giving telecentric imagery over a field diameter of 1.5° (Wynne C.G.), **265**, 747

Astronomical data bases

Atlases

- The 6C survey of radio sources – V. The zones 6C-Va ($48^\circ < \delta < 68^\circ$, $01^\mathrm{h}34^\mathrm{m} < \alpha < 06^\mathrm{h}14^\mathrm{m}$) and 6C-Vb ($48^\circ < \delta < 68^\circ$, $17^\mathrm{h}16^\mathrm{m} < \alpha < 20^\mathrm{h}24^\mathrm{m}$) (Hales S.E.G., Masson C.R., Warner P.J., Baldwin J.E., Green D.A.), **262**, 1057
- The 6C survey of radio sources – VI. The continuous zone $30^\circ < \delta < 51^\circ$, $0^\mathrm{h} < \alpha < 09^\mathrm{h}05^\mathrm{m}$ and $22^\mathrm{h}35^\mathrm{m} < \alpha < 24^\mathrm{h}$ (Hales S.E.G., Baldwin J.E., Warner P.J.), **263**, 25

Catalogues

- The *ROSAT* Wide Field Camera all-sky survey of extreme-ultraviolet sources – I. The Bright Source Catalogue (Pounds K.A. et al.), **260**, 77

The bivariate diameter-magnitude function of galaxies in the ESO-LV catalogue (Sodré L., Jr, Lahav O.), **260**, 285

- The 6C survey of radio sources – V. The zones 6C-Va ($48^\circ < \delta < 68^\circ$, $01^\mathrm{h}34^\mathrm{m} < \alpha < 06^\mathrm{h}14^\mathrm{m}$) and 6C-Vb ($48^\circ < \delta < 68^\circ$, $17^\mathrm{h}16^\mathrm{m} < \alpha < 20^\mathrm{h}24^\mathrm{m}$) (Hales S.E.G., Masson C.R., Warner P.J., Baldwin J.E., Green D.A.), **262**, 1057

- The 6C survey of radio sources – VI. The continuous zone $30^\circ < \delta < 51^\circ$, $0^\mathrm{h} < \alpha < 09^\mathrm{h}05^\mathrm{m}$ and $22^\mathrm{h}35^\mathrm{m} < \alpha < 24^\mathrm{h}$ (Hales S.E.G., Baldwin J.E., Warner P.J.), **263**, 25

- Source analysis on radio maps from the Cambridge Low Frequency Synthesis Telescope (Waldrum E.M., Riley J.M.), **265**, 853

Surveys

- A deep *ROSAT* survey – I. The QSO X-ray luminosity function (Boyle B.J., Griffiths R.E., Shanks T., Stewart G.C., Georgantopoulos I.), **260**, 49

- Infrared observations of highly variable radio sources in the galactic plane (Norton A.J., Coe M.J., Unger S.J., Margon B., Phillips A.C.), **260**, 883

- A deep CCD search for low surface brightness galaxies in A3574 (Turner J.A., Phillipps S., Davies J.I., Disney M.J.), **261**, 39

- Connection of large-scale structures of the galaxy distribution behind the southern Milky Way (Yamada T., Takata T., Djameluddin T., Tomita A., Aoki K., Takeda A., Saito M.), **262**, 79

- Discovery of an EUV-bright polar in the period gap from the *ROSAT* Wide Field Camera sky survey (Buckley D.A.H., O'Donoghue D., Hassall B.J.M., Kellett B.J., Mason K.O., Sekiguchi K., Watson M.G., Wheatley P.J., Chen A.), **262**, 93

- The EUV source population and the local bubble (Warwick R.S., Barber C.R., Hodgkin S.T., Pye J.P.), **262**, 289

- The 6C survey of radio sources – V. The zones 6C-Va ($48^\circ < \delta < 68^\circ$, $01^\mathrm{h}34^\mathrm{m} < \alpha < 06^\mathrm{h}14^\mathrm{m}$) and 6C-Vb ($48^\circ < \delta < 68^\circ$, $17^\mathrm{h}16^\mathrm{m} < \alpha < 20^\mathrm{h}24^\mathrm{m}$) (Hales S.E.G., Masson C.R., Warner P.J., Baldwin J.E., Green D.A.), **262**, 1057

- The 6C survey of radio sources – VI. The continuous zone $30^\circ < \delta < 51^\circ$, $0^\mathrm{h} < \alpha < 09^\mathrm{h}05^\mathrm{m}$ and $22^\mathrm{h}35^\mathrm{m} < \alpha < 24^\mathrm{h}$ (Hales S.E.G., Baldwin J.E., Warner P.J.), **263**, 25

- A two-micron Galactic survey (Garzón F., Hammersley P.L., Mahoney T., Calbet X., Selby M.J., Hepburn I.D.), **264**, 773

- Optical galaxies within 8000 km s⁻¹ – I. The density field (Hudson M.J.), **265**, 43

- The three-dimensional power spectrum measured from the APM Galaxy Survey – I. Use of the angular correlation function (Baugh C.M., Efstathiou G.), **265**, 145

- Source analysis on radio maps from the Cambridge Low Frequency Synthesis Telescope (Waldrum E.M., Riley J.M.), **265**, 853

Astrometry and celestial mechanics

Astrometry

- New determinations of the proper motions of 44 pulsars (Harrison P.A., Lyne A.G., Anderson B.), **261**, 113

- Timing parameters for 59 pulsars (Siegman B.C., Manchester R.N., Durbin J.M.), **262**, 449

- The absolute proper motion and Galactic orbit of M3 (Scholz R.-D., Odenkirchen M., Irwin M.J.), **264**, 579

Celestial mechanics, stellar dynamics

- Simple galaxy models with massive haloes (Evans N.W.), **260**, 191

- Equilibria of rapidly rotating polytropes (Balmforth N.J., Howard L.N., Spiegel E.A.), **260**, 253

- Accretion disc response to a stellar fly-by (Clarke C.J., Pringle J.E.), **261**, 190

- An idealized mechanism for the orbital migration of protoplanets (Mediavilla E., Buitrago J., Portilla M.), **261**, 222

- Spherically symmetric, static solutions of the Brans-Dicke field equations in vacuum (Riazi N., Askari H.R.), **261**, 229

- Binary capture of small bodies by three-body interactions and impact on to compact objects (Pineault S., Duquet J.-R.), **261**, 246

- Models for spherical stellar systems with isotropic cores and anisotropic haloes (Louis P.D.), **261**, 283

- Three-integral models of oblate elliptical galaxies (Dehnen W., Gerhard O.E.), **261**, 311

- A new tree code method for simulation of planetesimal dynamics (Richardson D.C.), **261**, 396

- A study of Lagrangian radii oscillations and core-wandering using N-body simulations (Sweatman W.L.), **261**, 497

- Angle variables for numerically fitted orbital tori (Binney J., Kumar S.), **261**, 584

- The density structure of a galaxy influenced by a massive companion (Namboodiri P.M.S., Kochhar R.K.), **261**, 855

- The Geminid meteor stream and asteroid 3200 Phaethon (Williams I.P., Wu Z.), **262**, 231

- Two-integral distribution functions for axisymmetric galaxies (Hunter C., Qian E.), **262**, 401

- Dynamical biasing in binary star formation: implications for brown dwarfs in binaries (McDonald J.M., Clarke C.J.), **262**, 800

- A perturbation particle method for stability studies of stellar systems (Wachlin F.C., Rybicki G.B., Muzzio J.C.), **262**, 1007

- N-body simulations with perturbation particles – I. Method and tests (Leeuw F., Combes F., Binney J.), **262**, 1013

- Designer basis functions for potentials in galactic dynamics (Saha P.), **262**, 1062

- On the potentials of galactic discs (Cuddeford P.), **262**, 1076

- Erratum: Potential-density pairs for galaxies (de Zeeuw T., Pfenniger D.), **262**, 1087

- On the formation of spiral structure in gaseous discs through tidal interaction – II. Retrograde encounters (Sørensen S.-A.), **263**, 1

- A fluctuation-dissipation approach to dynamical friction in non-homogeneous backgrounds (Maoz E.), **263**, 75

- Orbital evolution of the large outer Solar system object 5145 Pholus (Asher D.J., Steel D.I.), **263**, 179

- Biorthogonal potential-density sets for flat discs (Qian E.E.), **263**, 394

- Studies of multiple stellar systems – I. The halo star G38–13 (Mazeh T., Krymolowski Y., Latham D.W.), **263**, 775

- The origin of anisotropic velocity dispersion of particles in a disc potential (Ida S., Kokubo E., Makino J.), **263**, 875

- The dynamics of the outer regions of the Coma cluster (van Haarlem M.P., Cayón L., de la Cruz C.G., Martínez-González E., Rebolo R.), **264**, 71

- The four periodicities of the cataclysmic variable TV Columbae (Hellier C.), **264**, 132

- Simple discs with flat rotation curves (Evans N.W., Collett J.L.), **264**, 353

- The Quadrantid meteoroid stream and Comet 1491 I (Williams I.P., Wu Z.), **264**, 659

- Collisions in the Solar system – V. Terrestrial impact probabilities for parabolic comets (Steel D.I.), **264**, 813

- The least action principle and the spin of galaxies in the Local Group (Dunn A.M., Laflamme R.), **264**, 865

- The Perseid meteor shower at the current time (Wu Z., Williams I.P.), **264**, 980

- Dynamical friction in disc galaxies (Donner K.J., Sundelius B.), **265**, 88

- Relativistic discs and flat galaxy models (Bičák J., Lynden-Bell D., Pichon C.), **265**, 126

- N-body simulations of star-disc captures in globular clusters (Murray S.D., Clarke C.J.), **265**, 169

- Line-of-sight velocity profiles in spherical galaxies: breaking the degeneracy between anisotropy and mass (Gerhard O.E.), **265**, 213

- Statistical mechanics of galaxies (Hjorth J., Madsen J.), **265**, 237

- A family of potential-density pairs for spherical galaxies and bulges (Dehnen W.), **265**, 250
 A star orbiting around a supermassive rotating black hole: free motion and corrections due to star-disc collisions (Vokrouhlický D., Karas V.), **265**, 365
 Galactic dynamos and density wave theory – II. An alternative treatment for strong non-axisymmetry (Subramanian K., Mestel L.), **265**, 649
 NGC 6397: a case study in the resolution of post-collapse globular cluster cores (Druckier G.A.), **265**, 773

The Sun

Abundances

The influence of low-degree *p*-mode frequencies on the determination of the structure of the solar interior (Gough D.O., Kosovichev A.G.), **264**, 522

Corona

Line-of-sight velocities observed in the inner solar corona during the total solar eclipses of 1980 and 1983 (Raju K.P., Desai J.N., Chandrasekhar T., Ashok N.M.), **263**, 789

Flares

Solar identifications of Fe x–Fe xiv based on comparison with beam-foil, tokamak and laser-produced plasma spectra (Jupé C., Isler R.C., Trabert E.), **264**, 627

Interior

The influence of low-degree *p*-mode frequencies on the determination of the structure of the solar interior (Gough D.O., Kosovichev A.G.), **264**, 522

The variation in the strength of low-*l* solar *p*-modes: 1981–92 (Elsworth Y., Howe R., Isaak G.R., McLeod C.P., Miller B.A., New R., Speake C.C., Wheeler S.J.), **265**, 888

Magnetic fields

Line-of-sight velocities observed in the inner solar corona during the total solar eclipses of 1980 and 1983 (Raju K.P., Desai J.N., Chandrasekhar T., Ashok N.M.), **263**, 789

Oscillations

The influence of low-degree *p*-mode frequencies on the determination of the structure of the solar interior (Gough D.O., Kosovichev A.G.), **264**, 522

Generalized singular value decomposition analysis of helioseismic inversions (Christensen-Dalsgaard J., Hansen P.C., Thompson M.J.), **264**, 541

A new strategy for 2D inversion for solar rotation (Sekii T.), **264**, 1018

The variation in the strength of low-*l* solar *p*-modes: 1981–92 (Elsworth Y., Howe R., Isaak G.R., McLeod C.P., Miller B.A., New R., Speake C.C., Wheeler S.J.), **265**, 888

Seismic measurements of the helium abundance and the depth of stellar convection zones (Kosovichev A.G.), **265**, 1053

Rotation

A new strategy for 2D inversion for solar rotation (Sekii T.), **264**, 1018

Transition region

Collision strengths and rate coefficients for electron impact excitation in He I: an extrapolation of *R*-matrix calculations to higher electron impact energies (Lanzafame A.C., Tully J.A., Berrington K.A., Dufton P.L., Byrne P.B., Burgess A.), **264**, 402

Solar system

Comets: general

Investigations of D-type asteroids (Lagerkvist C.-I., Fitzsimmons A., Magnusson P., Williams I.P.), **260**, 679
 Thermal evolution of cometary nuclei by radioactive heating and possible formation of organic chemicals (Yabushita S.), **260**, 819
 Binary capture of small bodies by three-body interactions and impact on to compact objects (Pineault S., Duquet J.-R.), **261**, 246

- Orbital evolution of the large outer Solar system object 5145 Pholus (Asher D.J., Steel D.I.), **263**, 179
 On the variation of cometary coma brightness with comet–Earth distance (the Delta Effect) (Hughes D.W., McBride N., Boswell J., Jalowiczor P.), **263**, 247
 Extinction of olivine and pyroxene in the mid- and far-infrared (Koike C., Shibai H., Tuchiyama A.), **264**, 654
 Collisions in the Solar system – V. Terrestrial impact probabilities for parabolic comets (Steel D.I.), **264**, 813

Comets: individual: 1491 I

The Quadrantid meteoroid stream and Comet 1491 I (Williams I.P., Wu Z.), **264**, 659

Comets: individual: Halley

Collisions between the nucleus of Comet Halley and dust from its own meteoroid stream (Williams I.P., Hughes D.W., McBride N., Wu Z.), **260**, 43

Comets: individual: P/Encke

Asteroids in the Taurid Complex (Asher D.J., Clube S.V.M., Steel D.I.), **264**, 93

Comets: individual: P/Machholz

Comet Machholz and the Quadrantid meteor stream (Jones J., Jones W.), **261**, 605

Comets: individual: Swift–Tuttle

The Perseid meteor shower at the current time (Wu Z., Williams I.P.), **264**, 980

Comets: individual: P/Swift–Tuttle

The infrared (3.2–3.6 μm) spectrum of comet P/Swift–Tuttle: detection of methanol and other organics (Davies J.K., Mumma M.J., Reuter D.C., Hoban S., Weaver H.A., Puxley P.J., Lumsden S.L.), **265**, 1022

Comets: individual: Taurid Complex progenitor

Asteroids in the Taurid Complex (Asher D.J., Clube S.V.M., Steel D.I.), **264**, 93

Earth

Studies of telluric CO from Mauna Kea using the James Clerk Maxwell Telescope (Preston K.E., Feldman P.A., Singleton D.L., Amano T., Matthews H.E., Kudo A.), **264**, 673

Collisions in the Solar system – V. Terrestrial impact probabilities for parabolic comets (Steel D.I.), **264**, 813

Interplanetary medium

A physical model for the *IRAS* zodiacal dust bands (Jones M.H., Rowan-Robinson M.), **264**, 237

Meteoroids

Collisions between the nucleus of Comet Halley and dust from its own meteoroid stream (Williams I.P., Hughes D.W., McBride N., Wu Z.), **260**, 43

Comet Machholz and the Quadrantid meteor stream (Jones J., Jones W.), **261**, 605

The Geminid meteor stream and asteroid 3200 Phaethon (Williams I.P., Wu Z.), **262**, 231

Impact probabilities on artificial satellites for the 1993 Perseid meteoroid stream (Beech M., Brown P.), **262**, L35

Asteroids in the Taurid Complex (Asher D.J., Clube S.V.M., Steel D.I.), **264**, 93

Extinction of olivine and pyroxene in the mid- and far-infrared (Koike C., Shibai H., Tuchiyama A.), **264**, 654

The Quadrantid meteoroid stream and Comet 1491 I (Williams I.P., Wu Z.), **264**, 659

The Perseid meteor shower at the current time (Wu Z., Williams I.P.), **264**, 980

Sporadic meteor radiant distributions: orbital survey results (Jones J., Brown P.), **265**, 524

Minor planets

On the negative polarization of light scattered by subwavelength regolithic grains (Kolokolova L.O., Mishchenko M.I., Wolff M.), **260**, 550

Investigations of D-type asteroids (Lagerkvist C.-I., Fitzsimmons A., Magnusson P., Williams I.P.), **260**, 679

Orbital evolution of the large outer Solar system object 5145 Pholus (Asher D.J., Steel D.I.), **263**, 179

- Asteroids in the Taurid Complex (Asher D.J., Clube S.V.M., Steel D.I.), **264**, 93
- Planets and satellites: individual: Saturn**
On the negative polarization of light scattered by subwavelength regolithic grains (Kolokolova L.O., Mishchenko M.I., Wolff M.), **260**, 550
- Solar system: formation**
An idealized mechanism for the orbital migration of protoplanets (Medivalle E., Buitrago J., Portilla M.), **261**, 222
A new tree code method for simulation of planetesimal dynamics (Richardson D.C.), **261**, 396
The origin of anisotropic velocity dispersion of particles in a disc potential (Ida S., Kokubo E., Makino J.), **263**, 875
- Solar system: general**
Investigations of D-type asteroids (Lagerkvist C.-I., Fitzsimmons A., Magnusson P., Williams I.P.), **260**, 679
Orbital evolution of the large outer Solar system object 5145 Pholus (Asher D.J., Steel D.I.), **263**, 179
A physical model for the *IRAS* zodiacal dust bands (Jones M.H., Rowan-Robinson M.), **264**, 237
Collisions in the Solar system – V. Terrestrial impact probabilities for parabolic comets (Steel D.I.), **264**, 813
- Stars**
- Abundances**
Cosmic-abundance absorption dips in X1755–33 (Church M.J., Balucinska-Church M.), **260**, 59
Mass-loss rates and C/He ratios in the winds of the WC central stars of planetary nebulae (de Freitas Pacheco J.A., Costa R.D.D., de Araujo F.X., Petrina D.), **260**, 401
ROSAT EUV and soft X-ray studies of atmospheric composition and structure in G191–B2B (Barstow M.A., Fleming T.A., Finley D.S., Koester D., Diamond C.J.), **260**, 631
Reddening and age for 11 Galactic open clusters from integrated spectra (Santos J.F.C., Jr, Bica E.), **260**, 915
The features of chemical abundances in Galactic planetary nebulae (Amnuel P.R.), **261**, 263
Elemental abundance analyses with DAO spectrograms – XI. The early B stars Gamma Pegasi and Iota Herculis (Pintado O.I., Adelman S.J.), **264**, 63
RE1016–05: a white dwarf binary discovered with the *ROSAT* Wide Field Camera (Jomaron C.M., Branduardi-Raymont G., Bromage G.E., Hassall B.J.M., Hodgkin S.T., Mason K.O., Naylor T., Watson M.G.), **264**, 219
On the giant, horizontal and asymptotic branches of Galactic globular clusters – V. CCD photometry of NGC 1261 (Ferraro F.R., Clementini G., Fusi Pecci F., Vittilio E., Buonanno R.), **264**, 273
The gravities of K giant stars determined from [O i] and OH features (Bonnell J.T., Bell R.A.), **264**, 319
Further determinations of the gravities of cool giant stars using Mg i and MgH features (Bonnell J.T., Bell R.A.), **264**, 334
The chemical inhomogeneity of M13 (Folgheraiter E.L., Penny A.J., Griffiths W.K.), **264**, 991
An investigation of the double-mode Cepheid TU Cassiopeiae – I. Atmospheric parameters and chemical composition (Andrievsky S.M., Kovtyukh V.V., Makarenko E.N., Usenko I.A.), **265**, 257
Pulsating post-asymptotic giant branch stars (Gautschy A.), **265**, 340
The chemical composition of Algol systems – V. Confirmation of carbon deficiencies in the primaries of eight systems (Tomkin J., Lambert D.L., Lemke M.), **265**, 581
Speedy Mic: a very young, rapidly rotating K star (Anders G.J., Jeffries R.D., Kellett B.J., Coates D.W.), **265**, 941
Seismic measurements of the helium abundance and the depth of stellar convection zones (Kosovichev A.G.), **265**, 1053
- Activity**
Gliese 841A: an EUV-selected chromospherically active binary system (Jeffries R.D., Bromage G.E.), **260**, 132
Optical and ultraviolet observations of the star LkHα 264 (Gameiro J.F., Lago M.T.V.T., Lima N.M., Cameron A.C.), **261**, 11
The chromospheres of late-type stars – II. An atlas of chromospheric lines for selected early-K stars (Thatcher J.D., Robinson R.D.), **262**, 1
- Prominence activity on the rapidly rotating field star HD 197890 (Jeffries R.D.), **262**, 369
Rotation periods of selected members of the α Persei cluster (O'Dell M.A., Collier Cameron A.), **262**, 521
Evidence from infrared observations of circumstellar matter around chromospherically active binaries (Scaltriti F., Busso M., Ferrari-Toniolo M., Origlia L., Persi P., Roberto M., Silvestro G.), **264**, 5
The kinematics of active late-type stars observed by the *ROSAT* Wide Field Camera (Jeffries R.D., Jewell S.J.), **264**, 106
Coronal activity from AB Dor and RST 137B (Beasley A.J., Cram L.E.), **264**, 570
On magnetic fields, stellar coronae and dynamo action in late-type dwarfs (Montesinos B., Jordan C.), **264**, 900
RE 0618 + 75: a very short-period, binary dMe system (Jeffries R.D., Elliott K.H., Kellett B.J., Bromage G.E.), **265**, 81
Microwave radio emission from the red dwarf star YZ CMi (Spencer R.E., Davis R.J., Zafiroopoulos B., Nelson R.F.), **265**, 231
Speedy Mic: a very young, rapidly rotating K star (Anders G.J., Jeffries R.D., Kellett B.J., Coates D.W.), **265**, 941
- AGB and post-AGB**
Irregular small-amplitude pulsations in yellow supergiant star models (Aikawa T.), **262**, 893
Pulsating post-asymptotic giant branch stars (Gautschy A.), **265**, 340
- Atmospheres**
The presence of Fe vii and of low-ionization features in the UV spectra of central stars of planetary nebulae (Tweedy R.W.), **260**, 855
Prominence activity on the rapidly rotating field star HD 197890 (Jeffries R.D.), **262**, 369
Improved effective temperatures for hydrogen-deficient binary stars (Dudley R.E., Jeffery C.S.), **262**, 945
The first measurement of the Lyman continuum emission from normal stars (Hoare M.G., Drew J.E., Denby M.), **262**, L19
Some aspects of illuminated model atmosphere theory as applied to close binary systems (Crammer S.R.), **263**, 989
ROSAT studies of the composition and structure of DA white dwarf atmospheres (Barstow M.A., Fleming T.A., Diamond C.J., Finley D.S., Sansom A.E., Rosen S.R., Koester D., Marsh M.C., Holberg J.B., Kidder K.), **264**, 16
The gravities of K giant stars determined from [O i] and OH features (Bonnell J.T., Bell R.A.), **264**, 319
Further determinations of the gravities of cool giant stars using Mg i and MgH features (Bonnell J.T., Bell R.A.), **264**, 334
A comparison between observed and calculated *IRAS* fluxes of G and K giant stars (Bell R.A.), **264**, 345
A model atmosphere investigation of the effect of irradiation on the secondary star in a dwarf nova (Brett J.M., Smith R.C.), **264**, 641
An investigation of the double-mode Cepheid TU Cassiopeiae – I. Atmospheric parameters and chemical composition (Andrievsky S.M., Kovtyukh V.V., Makarenko E.N., Usenko I.A.), **265**, 257
Resonance-line polarization in a moving medium: solution in the comoving frame with complete frequency redistribution (Sengupta S.), **265**, 513
The chemical composition of Algol systems – V. Confirmation of carbon deficiencies in the primaries of eight systems (Tomkin J., Lambert D.L., Lemke M.), **265**, 581
- Binaries: close**
Observations and modelling of the hard X-ray emission from GX 1 + 4 (Greenhill J.G., Sharma D.P., Dieters S.W.B., Sood R.K., Waldron L., Storey M.C.), **260**, 21
Cosmic-abundance absorption dips in X1755–33 (Church M.J., Balucinska-Church M.), **260**, 59
The magnetic field configurations of AM Herculis binaries (Wu K., Wickramasinghe D.T.), **260**, 141
The accretion curtain model for intermediate polars – I. A kinematical model for radial velocity and velocity dispersion (Ferrario L., Wickramasinghe D.T., King A.R.), **260**, 149
A survey for QPOs in AM Herculis stars and a detailed study of the QPOs in AN Ursae Majoris (Ramseyer T.F., Robinson E.L., Zhang E., Wood J.H., Stiening R.F.), **260**, 209
Modelling of X-ray emission from WR + O binary systems (Myasnikov A.V., Zhekov S.A.), **260**, 221
CCD photometry of the eclipsing binary RU UMi (Bell S.A., Hilditch R.W., Edwin R.P.), **260**, 478

- The merger rate of neutron star and black hole binaries (Tutukov A.V., Yungelson L.R.), **260**, 675
- Simultaneous *ROSAT/Ginga* observations of 4U 1820–30 (van der Klis M., Hasinger G., Dotani T., Mitsuda K., Verbunt F., Murphy B.W., van Paradijs J., Belloni T., Makishima K., Morgan E., Lewin W.H.G.), **260**, 686
- Infrared observations of highly variable radio sources in the galactic plane (Norton A.J., Coe M.J., Unger S.J., Margon B., Phillips A.C.), **260**, 883
- VLBI observations of a strong radio flare in HR 1099 (Trigilio C., Umana G., Migenes V.), **260**, 903
- The evolutionary status of the black hole candidate V404 Cygni (King A.R.), **260**, L5
- The accretion of diamagnetic blobs by a rotating magnetosphere (King A.R.), **261**, 144
- Unusual features in the persistent emission of the Rapid Burster (Lubin L.M., Lewin W.H.G., van Paradijs J., van der Klis M.), **261**, 149
- Accretion disc response to a stellar fly-by (Clarke C.J., Pringle J.E.), **261**, 190
- An extended disc around SS 433 (Fabrika S.N.), **261**, 241
- Infrared and optical observations of the newly identified Be/X-ray binary LSI + 61° 235 (Coe M.J., Everall C., Norton A.J., Roche P., Unger S.J., Fabregat J., Reglero V., Grunsfeld J.M.), **261**, 599
- Formation of low-mass binaries with millisecond pulsars (Muslimov A.G., Sarna M.J.), **262**, 164
- IK Peg – a nearby, short-period, Sirius-like system (Wonnacott D., Kellett B.J., Stickland D.J.), **262**, 277
- Detection of cyclotron emission features in the infrared spectrum of ST LMi (Ferrario L., Bailey J., Wickramasinghe D.T.), **262**, 285
- Detection of a 5.7-h period in the globular cluster X-ray source 4U 1746–371 (Sansom A.E., Dotani T., Asai K., Lehto H.J.), **262**, 429
- Ginga* observations of X1820–303 in the globular cluster NGC 6624 (Ercan E.N., Cruise A.M., Kellett B.J., Sayili K.), **262**, 511
- How young are the low-mass X-ray binaries? Conclusions from a flux-limited sample (Naylor T., Podsiadlowski Ph.), **262**, 929
- A 4.86-h periodic modulation in the UV resonance lines of the cataclysmic variable V795 Herculis (Prinja R.K., Rosen S.R.), **262**, L37
- A three-dimensional smoothed particle hydrodynamics simulation of the active phase of SS Cyg-type discs and its implications for the mass transfer burst model (Lanzafame G., Belvedere G., Molteni D.), **263**, 839
- Some aspects of illuminated model atmosphere theory as applied to close binary systems (Crammer S.R.), **263**, 989
- Evidence from infrared observations of circumstellar matter around chromospherically active binaries (Scaltriti F., Busso M., Ferrari-Toniolo M., Origlia L., Persi P., Roberto M., Silvestro G.), **264**, 5 RE0751 + 14, the first ‘intermediate’ polar? (Rosen S.R., Mittaz J.P.D., Hakala P.J.), **264**, 171
- Vela X-1 and its missing third harmonic (Orlandini M.), **264**, 181
- Is X1957 + 11 a black hole candidate? (Yaqoob T., Ebisawa K., Mitsuda K.), **264**, 411
- 3D structure of truncated accretion discs in close binaries (Meglicki Z., Wickramasinghe D., Bicknell G.V.), **264**, 691
- Contact binaries and SX Ph variables in the globular cluster NGC 4372 (Kaluzny J., Krzeminski W.), **264**, 785
- Binary pulsar PSR 1718–19 contains a stripped main-sequence turn-off star (Zwitter T.), **264**, L3
- Discovery of 17 variable stars in the old open cluster NGC 6791 (Kaluzny J., Ruciński S.M.), **265**, 34
- RE 0618 + 75: a very short-period, binary dMe system (Jeffries R.D., Elliott K.H., Kellett B.J., Bromage G.E.), **265**, 81
- Magnetic moment distribution of magnetic cataclysmic variables – II. Effects due to period distribution (Wu K., Wickramasinghe D.T.), **265**, 115
- H α position determination of the binary Circinus X-1 (Duncan A.R., Stewart R.T., Haynes R.F.), **265**, 157
- Simulation of the X-ray light curves of intermediate polars (Norton A.J.), **265**, 316
- The noise in the 35-d cycle of Her X-1 (Baykal A., Boynton P.E., Deeter J.E., Scott D.M.), **265**, 347
- On determining the wind velocity profiles of early-type stars in massive X-ray binary systems (Stevens I.R.), **265**, 601
- A model for the optical continuum and Balmer emission lines in intermediate polars (Ferrario L., Wickramasinghe D.T.), **265**, 605
- An ellipsoidal study of Centaurus X-4 (Shahbaz T., Naylor T., Charles P.A.), **265**, 655
- Optical studies of V404 Cyg, the X-ray transient GS 2023 + 338 – III. The secondary star and accretion disc (Casares J., Charles P.A., Naylor T., Pavlenko E.P.), **265**, 834
- Wind accretion in binary stars – I. Intricacies of the flow structure (Theuns T., Jorissen A.), **265**, 946
- CCD photometry of the massive X-ray binary 2S 0114 + 650 (Bell S.A., Hilditch R.W., Pollacco D.L.), **265**, 1042
- Discovery of another AM Her variable in the period gap (Wickramasinghe D.T., Ferrario L., Bailey J.A., Drissen L., Dopita M.A., Shara M., Hough J.H.), **265**, L29
- Disc-overflow accretion in the intermediate polar FO Aquarii (Hellier C.), **265**, L35
- Binaries: eclipsing**
- X-ray orbital modulations in intermediate polars (Hellier C., Garlick M.A., Mason K.O.), **260**, 299
- CCD photometry of the eclipsing binary RU UMi (Bell S.A., Hilditch R.W., Edwin R.P.), **260**, 478
- Cygnus X-3 light-curve model in the TeV energy region (Moskalenko I.V., Karakula S., Tkaczynski W.), **260**, 681
- Cyclotron humps in AM Her systems – V. Two poles in DP Leo (Cropper M., Wickramasinghe D.T.), **260**, 696
- CCD photometry of variable stars in the Magellanic Clouds – III. The eclipsing binary HV 12484 (Tobin W., Duncan S.P.R., West S.R.D., Gilmore A.C.), **260**, 777
- The extraordinary early-type eclipsing binary HR 2680 (Balona L.A., Cuypers J.), **261**, 1
- HW Virginis: a short-period eclipsing binary containing an sdB star (Wood J.H., Zhang E.-H., Robinson E.L.), **261**, 103
- Optical spectroscopy of the massive X-ray binary SMC X-1/Sk 160 (Reynolds A.P., Hilditch R.W., Bell S.A., Hill G.), **261**, 337
- Changes of accretion spot longitude in eclipsing AM Herculis binaries (Bailey J., Wickramasinghe D.T., Ferrario L., Hough J.H., Cropper M.), **261**, L31
- Discovery of 12 short-period eclipsing binaries in the old open cluster Berkeley 39 (Kaluzny J., Mazur B., Krzeminski W.), **262**, 49
- Light-curve solutions for S Cancri and TT Hydras with rapid rotation (Van Hamme W., Wilson R.E.), **262**, 220
- New light on UU Sagittae (Pollacco D.L., Bell S.A.), **262**, 377
- The evolutionary status of β Per (Sarna M.J.), **262**, 534
- ROSAT* observations of UZ For: evidence of a structured X-ray emission region (Ramsay G., Rosen S.R., Mason K.O., Cropper M.S., Watson M.G.), **262**, 993
- X-ray observations of EX Hydrae with the *Einstein* Solid State Spectrometer (Singh J., Swank J.), **262**, 1000
- The discovery of a new bright eclipsing AM Her system (Hakala P.J., Watson M.G., Vilhu O., Hassall B.J.M., Kellett B.J., Mason K.O., Pirola V.), **263**, 61
- Period changes in the eclipsing binary DR Vulpeculae (Wolf M., Diethelm R.), **263**, 527
- Evidence from infrared observations of circumstellar matter around chromospherically active binaries (Scaltriti F., Busso M., Ferrari-Toniolo M., Origlia L., Persi P., Roberto M., Silvestro G.), **264**, 5
- Observation of Beta Cephei candidates in the Jewel Box (Koen C.), **264**, 165
- Evidence for non-axisymmetric absorption in V1315 Aquilae (Smith R.C., Fiddick R.J., Hawkins N.A., Catalán M.S.), **264**, 619
- Contact binaries and SX Ph variables in the globular cluster NGC 4372 (Kaluzny J., Krzeminski W.), **264**, 785
- A multi-frequency study of symbiotic stars – III. Simultaneous ultraviolet and optical observations of AX Persei (Ivison R.J., Bode M.F., Evans A., Skopal A., Meaburn J.), **264**, 875
- Binary pulsar PSR 1718–19 contains a stripped main-sequence turn-off star (Zwitter T.), **264**, L3
- CCD photometry of variable stars in the Magellanic Clouds – IV. The eclipsing binary HV 1761 and nearby field variables (Duncan S.P.R., Tobin W., Watson R.D., Gilmore A.C.), **265**, 189
- The chemical composition of Algol systems – V. Confirmation of carbon deficiencies in the primaries of eight systems (Tomkin J., Lambert D.L., Lemke M.), **265**, 581
- Eclipsing binaries in the Magellanic Clouds – II. Absolute dimensions and distance modulus for HV 5936 in the Large Magellanic Cloud (Bell S.A., Hill G., Hilditch R.W., Clausen J.V., Reynolds A.P.), **265**, 1047

- Binaries: general**
- Pulsar population characteristics and evolution of massive binaries (Rathnasree N.), **260**, 717
 - The outflowing regime of quasi-spherical accretion on to X-ray compact objects (Igumenshchev I.V., Illarionov A.F., Kompaneets D.A.), **260**, 727
 - PSR B1802-07: a globular cluster pulsar in an eccentric binary system (D'Amico N., Bailes M., Lyne A.G., Manchester R.N., Johnston S., Fruchter A.S., Goss W.M.), **260**, L7
 - Binary capture of small bodies by three-body interactions and impact on to compact objects (Pineault S., Duquet J.-R.), **261**, 246
 - Is Proxima really in orbit about α Cen A/B? (Matthews R., Gilmore G.), **261**, 15
 - K-band spectroscopy of Be-star X-ray binaries (Everall C., Coe M.J., Norton A.J., Roche P., Unger S.J.), **262**, 57
 - The distribution of low-mass stars in the Galactic disc (Kroupa P., Tout C.A., Gilmore G.), **262**, 545
 - Dynamical biasing in binary star formation: implications for brown dwarfs in binaries (McDonald J.M., Clarke C.J.), **262**, 800
 - ROSAT/IUE* discovery of a white dwarf companion to HD 33959C (F4V) (Hodgkin S.T., Barstow M.A., Fleming T.A., Monier R., Pye J.P.), **263**, 229
 - Heavy mass loss from the symbiotic star AS 304 (Munari U., Buson L.M.), **263**, 267
 - The 9 Aurigae system (Krisciunas K., Aspin C., Geballe T.R., Akazawa H., Claver C.F., Guinan E.F., Landis H.J., Luedke K.D., Ohkura N., Ohshima O., Skillman D.R.), **263**, 781
 - Multiple fragmentation in collapsing protostars (Burkert A., Bodenheimer P.), **264**, 798
 - N-body simulations of star-disc captures in globular clusters (Murray S.D., Clarke C.J.), **265**, 169
 - Three-dimensional hydrodynamic simulations of collapsing prolate clouds (Nelson R.P., Papaloizou J.C.B.), **265**, 905
- Binaries: spectroscopic**
- Gliese 841A: an EUV-selected chromospherically active binary system (Jeffries R.D., Bromage G.E.), **260**, 132
 - An orbital solution for the binary Cepheid AW Per (Vinkó J.), **260**, 273
 - The donor star of the long-period dwarf nova DX Andromedae (Drew J.E., Jones D.H.P., Woods J.A.), **260**, 803
 - Unified model fitting to variable X-ray spectra of Cygnus X-3 (Nakamura H., Matsuoka M., Kawai N., Yoshida A., Miyoshi S., Kitamoto S., Yamashita K.), **261**, 353
 - Circinus X-1: a runaway binary with curved radio jets (Stewart R.T., Caswell J.L., Haynes R.F., Nelson G.J.), **261**, 593
 - Improved effective temperatures for hydrogen-deficient binary stars (Dudley R.E., Jeffery C.S.), **262**, 945
 - Studies of multiple stellar systems – I. The halo star G38-13 (Mazeh T., Krymolowski Y., Latham D.W.), **263**, 775
 - RE1016-05: a white dwarf binary discovered with the *ROSAT* Wide Field Camera (Jomaron C.M., Branduardi-Raymont G., Bromage G.E., Hassall B.J.M., Hodgkin S.T., Mason K.O., Naylor T., Watson M.G.), **264**, 219
 - Evidence for non-axisymmetric absorption in V1315 Aquilae (Smith R.C., Fiddick R.J., Hawkins N.A., Catalán M.S.), **264**, 619
 - The radial velocity and binarity of HD 153919 (4U 1700-37) (Stickland D.J., Lloyd C.), **264**, 935
 - Optical studies of V404 Cyg, the X-ray transient GS 2023 + 338 – III. The secondary star and accretion disc (Casares J., Charles P.A., Naylor T., Pavlenko E.P.), **265**, 834
 - The effective temperatures of Am stars from the infrared flux method (Smalley B.), **265**, 1035
- Carbon**
- Very red stars between the Magellanic Clouds: discovery of carbon stars in the outer LMC and SMC haloes (Demers S., Irwin M.J., Kunkel W.E.), **260**, 103
 - More dwarf carbon stars (Warren S.J., Irwin M.J., Evans D.W., Liebert J., Osmer P.S., Hewett P.C.), **261**, 185
- Chemically peculiar**
- The discovery and analysis of a rich *p*-mode oscillation spectrum in the Ap star HD 119027 (Martinez P., Kurtz D.W., Meintjes P.J.), **260**, 9
 - Phase instability and non-linearity in the distorted dipole pulsation mode of the rapidly oscillating Ap star HR 3831 (HD 83368) (Kurtz D.W., Kanaan A., Martinez P.), **260**, 343
- Excitation of the pulsation in the helium star V652 Her (Saio H.),**
- 260**, 465
- A frequency analysis of the rapidly oscillating Ap star HD 84041 and a determination of its rotation period (Martinez P., Kurtz D.W., Kreidl T.J., Koen C., van Wyk F., Marang F., Roberts G.), **263**, 273
- Radial pulsation and the rotation period of the rapidly oscillating Ap star α Circini (HR 5463, HD 128898) (Kurtz D.W., Martinez P., Ashley R.P.), **264**, 529
- Luminosity and radial velocity variations of the six coolest extreme helium stars (Lawson W.A., Kilkenney D., van Wyk F., Marang F., Pollard K., Ryder S.D.), **265**, 351
- The pulsational nature of R Coronae Borealis: light and radial velocity variations during 1990 and 1991 (Fernie J.D., Lawson W.A.), **265**, 899
- The effective temperatures of Am stars from the infrared flux method (Smalley B.), **265**, 1035
- Chromospheres**
- Gliese 841A: an EUV-selected chromospherically active binary system (Jeffries R.D., Bromage G.E.), **260**, 132
 - The chromospheres of late-type stars – II. An atlas of chromospheric lines for selected early-K stars (Thatcher J.D., Robinson R.D.), **262**, 1
 - RE1016-05: a white dwarf binary discovered with the *ROSAT* Wide Field Camera (Jomaron C.M., Branduardi-Raymont G., Bromage G.E., Hassall B.J.M., Hodgkin S.T., Mason K.O., Naylor T., Watson M.G.), **264**, 219
 - On magnetic fields, stellar coronae and dynamo action in late-type dwarfs (Montesinos B., Jordan C.), **264**, 900
- Circumstellar matter**
- Imaging polarimetry of the bipolar nebula Parsamyan 22 (Scarrott S.M., Draper P.W., Tadhunter C.N.), **260**, 171
 - The scattering of polarized radiation through optically thin circumstellar envelopes (Fox G.K.), **260**, 513
 - A polarimetric investigation of a magnetically driven Be star wind (Fox G.K.), **260**, 525
 - A model for the circumstellar envelope of WX Ser (Griffin I.P.), **260**, 831
 - The nature of the Napoleon's Hat nebula of SN 1987A (Wang L., Dyson J.E., Kahn F.D.), **261**, 391
 - Infrared and optical observations of the newly identified Be/X-ray binary LSI + 61° 235 (Coe M.J., Everall C., Norton A.J., Roche P., Unger S.J., Fabregat J., Reglero V., Grunsfeld J.M.), **261**, 599
 - The Type II supernova 1988Z in MCG + 03-28-022: increasing evidence of interaction of supernova ejecta with a circumstellar wind (Turatto M., Cappellaro E., Danziger I.J., Benetti S., Gouffos C., Della Valle M.), **262**, 128
 - Circumstellar dust emission in five Large Magellanic Cloud supergiants (Roche P.F., Aitken D.K., Smith C.H.), **262**, 301
 - Cold bright matter near supernova 1987A (Cumming R.J., Meikle W.P.S.), **262**, 689
 - The molecular environment of S106 IR (Richer J.S., Padman R., Ward-Thompson D., Hills R.E., Harris A.I.), **262**, 839
 - Improved effective temperatures for hydrogen-deficient binary stars (Dudley R.E., Jeffery C.S.), **262**, 945
 - Formaldehyde in oxygen-rich circumstellar envelopes (Millar T.J., Olofsson H.), **262**, L55
 - On the nebular absorption and re-emission of the ultraviolet flux from HD 44179 (Webster A.), **262**, L59
 - The nebular remnant and quiescent spectrum of Nova GK Persei (Anupama G.C., Prabhu T.P.), **263**, 335
 - Clumping and small-scale mixing in supernova 1987A (Spyromilio J., Stathakis R.A., Meurer G.R.), **263**, 530
 - Optical emission bands in the spectrum of the R CrB star V854 Cen at minimum (Rao N.K., Lambert D.L.), **263**, L27
 - Evidence from infrared observations of circumstellar matter around chromospherically active binaries (Scaltriti F., Busso M., Ferrari-Toniolo M., Origlia L., Persi P., Roberto M., Silvestro G.), **264**, 5
 - Geometrical effects in models of OH/IR-star masers (van Langevelde H.J., Spaans M.), **264**, 597
 - High-velocity spectral features in V854 Centauri: evidence for dust formation? (Clayton G.C., Lawson W.A., Whitney B.A., Pollacco D.L.), **264**, L13
 - Ryle Telescope observations of SN1993J at 15 GHz: the first 115 d (Pooley G.G., Green D.A.), **264**, L17

- A search for water and mainline OH masers from OH/IR star colour mimics (Lewis B.M., Engels D.), **265**, 161
- Excited hydrogen and the formation of molecular hydrogen via associative ionization – I. Physical processes and outflows from young stellar objects (Rawlings J.M.C., Drew J.E., Barlow M.J.), **265**, 968
- Gamma-ray bursts from blast waves around Galactic neutron stars (Begelman M.C., Mészáros P., Rees M.J.), **265**, L13
- Mid-infrared spectroscopy of Beta Pictoris: constraints on the dust grain size (Aitken D.K., Moore T.J.T., Roche P.F., Smith C.H., Wright C.M.), **265**, L41
- Coronae**
On magnetic fields, stellar coronae and dynamo action in late-type dwarfs (Montesinos B., Jordan C.), **264**, 900
- Distances**
Strömgren and H β photometry of OB associations and open clusters – II. Tr 16 and Car OB2 (Kaltcheva N.T., Georgiev L.N.), **261**, 847
- Geometrical effects in models of OH/IR-star masers (van Langevelde H.J., Spaans M.), **264**, 597
- Surface brightness distance determinations to the Large Magellanic Cloud Cepheid variables HV 899 and 2257 (Gieren W.P.), **265**, 184
- A new method for estimating the distance of young open clusters (Hendry M.A., O'Dell M.A., Collier Cameron A.), **265**, 983
- Early-type**
CCD photometry of variable stars in the Magellanic Clouds – III. The eclipsing binary HV 12484 (Tobin W., Duncan S.P.R., West S.R.D., Gilmore A.C.), **260**, 777
- CCD photometry of two young Large Magellanic Cloud clusters: NGC 2004 and 2100 (Balona L.A., Jerzykiewicz M.), **260**, 782
- Strömgren and H β photometry of OB associations and open clusters – II. Tr 16 and Car OB2 (Kaltcheva N.T., Georgiev L.N.), **261**, 847
- The stability of massive main-sequence stars (Glatzel W., Kiriakidis M.), **262**, 85
- The opacity mechanism in B-type stars – I. Unstable modes in β Cephei star models (Dziembowski W.A., Pamyatnykh A.A.), **262**, 204
- On non-radial oscillations of B-type stars (Gautschy A., Saio H.), **262**, 213
- The first measurement of the Lyman continuum emission from normal stars (Hoare M.G., Drew J.E., Denby M.), **262**, L19
- Elemental abundance analyses with DAO spectrograms – XI. The early B stars Gamma Pegasi and Iota Herculis (Pintado O.I., Adelman S.J.), **264**, 63
- Observation of Beta Cephei candidates in the Jewel Box (Koen C.), **264**, 165
- Constraints on the outflow in S106IR from He I 2.058- μ m absorption-line and H I emission-line profiles (Drew J.E., Bunn J.C., Hoare M.G.), **265**, 12
- CCD photometry of variable stars in the Magellanic Clouds – IV. The eclipsing binary HV 1761 and nearby field variables (Duncan S.P.R., Tobin W., Watson R.D., Gilmore A.C.), **265**, 189
- The opacity mechanism in B-type stars – II. Excitation of high-order g-modes in main-sequence stars (Dziembowski W.A., Moskalik P., Pamyatnykh A.A.), **265**, 588
- On determining the wind velocity profiles of early-type stars in massive X-ray binary systems (Stevens I.R.), **265**, 601
- Eclipsing binaries in the Magellanic Clouds – II. Absolute dimensions and distance modulus for HV 5936 in the Large Magellanic Cloud (Bell S.A., Hill G., Hilditch R.W., Clausen J.V., Reynolds A.P.), **265**, 1047
- Emission-line, Be**
The scattering of polarized radiation through optically thin circumstellar envelopes (Fox G.K.), **260**, 513
- A polarimetric investigation of a magnetically driven Be star wind (Fox G.K.), **260**, 525
- Infrared and optical observations of the newly identified Be/X-ray binary LSI + 61° 235 (Coe M.J., Everall C., Norton A.J., Roche P., Unger S.J., Fabregat J., Reglero V., Grunsfeld J.M.), **261**, 599
- K-band spectroscopy of Be-star X-ray binaries (Everall C., Coe M.J., Norton A.J., Roche P., Unger S.J.), **262**, 57
- The theoretical polarization from axisymmetric circumstellar envelopes with constant scattering optical depth (Fox G.K.), **264**, 565
- Further evidence for Raman scattering in RR Tel (van Groningen E.), **264**, 975
- CCD photometry of variable stars in the Magellanic Clouds – IV. The eclipsing binary HV 1761 and nearby field variables (Duncan S.P.R., Tobin W., Watson R.D., Gilmore A.C.), **265**, 189
- Evolution**
Reddening and age for 11 Galactic open clusters from integrated spectra (Santos J.F.C., Jr, Bica E.), **260**, 915
- Rotational evolution of solar-type stars with core-envelope decoupling (Jianle L., Collier Cameron A.), **261**, 766
- IK Peg – a nearby, short-period, Sirius-like system (Wonnacott D., Kellett B.J., Stickland D.J.), **262**, 277
- New light on UU Sagittae (Pollacco D.L., Bell S.A.), **262**, 377
- The evolutionary status of β Per (Sarna M.J.), **262**, 354
- The distribution of low-mass stars in the Galactic disc (Kroupa P., Tout C.A., Gilmore G.), **262**, 545
- On the giant, horizontal and asymptotic branches of Galactic globular clusters – V. CCD photometry of NGC 1261 (Ferraro F.R., Clementini G., Fusi Pecci F., Vitiello E., Buonanno R.), **264**, 273
- Coronal activity from AB Dor and RST 137B (Beasley A.J., Cram L.E.), **264**, 570
- Magnetic moment distribution of magnetic cataclysmic variables – II. Effects due to period distribution (Wu K., Wickramasinghe D.T.), **265**, 115
- Luminosity and radial velocity variations of the six coolest extreme helium stars (Lawson W.A., Kilkenney D., van Wyk F., Marang F., Pollard K., Ryder S.D.), **265**, 351
- Flare**
Gliese 841A: an EUV-selected chromospherically active binary system (Jeffries R.D., Bromage G.E.), **260**, 132
- VLBI observations of a strong radio flare in HR 1099 (Trigilio C., Umana G., Migenes V.), **260**, 903
- Is Proxima really in orbit about α Cen A/B? (Matthews R., Gilmore G.), **261**, L5
- Coronal activity from AB Dor and RST 137B (Beasley A.J., Cram L.E.), **264**, 570
- Microwave radio emission from the red dwarf star YZ CMi (Spencer R.E., Davis R.J., Zafiroopoulos B., Nelson R.F.), **265**, 231
- Formation**
Imaging polarimetry of the bipolar nebula Parsamyan 22 (Scarrott S.M., Draper P.W., Tadhunter C.N.), **260**, 171
- Dust emission associated with DR21(OH) (Chandler C.J., Gear W.K., Chini R.), **260**, 337
- Methanol masers at 12 GHz (Caswell J.L., Gardner F.F., Norris R.P., Wellington K.J., McCutcheon W.H., Peng R.S.), **260**, 425
- A model for the bilateral interaction between dynamo action and star formation in galactic discs (Nozakura T.), **260**, 861
- Accretion disc response to a stellar fly-by (Clarke C.J., Pringle J.E.), **261**, 190
- New detections of 6.6-GHz 5₁–6₀ A⁺-methanol emission towards southern hydroxyl masers (Gaylard M.J., MacLeod G.C.), **262**, 43
- The illumination of the GGD 30 nebulosity (Foley N.B., Gledhill T.M., Scarrott S.M., Wolstencroft R.D.), **262**, 175
- The nature of the optical nebulosity surrounding the star RNO 91 in the L43 dark cloud (Scarrott S.M., Draper P.W., Tadhunter C.N.), **262**, 306
- Long-term variability in 12.2-GHz 2₀–3₋₁ E-methanol masers and new detections towards 6.6-GHz 5₁–6₀ A⁺-methanol masers (MacLeod G.C., Gaylard M.J., Kemball A.J.), **262**, 343
- A model for the formation, evolution and structure of the solar cylinder (Sommer-Larsen J., Antonuccio-Delogu V.), **262**, 350
- Studies in mid-infrared spectropolarimetry – I. Magnetic fields, discs and flows in star formation regions (Aitken D.K., Wright C.M., Smith C.H., Roche P.F.), **262**, 456
- Discovery of two Herbig-Haro objects in the small dark cloud D291.4–0.2 in Carina (Ogura K.), **262**, 735
- Enhanced star formation in the cometary globules of the Gum nebula (Bhatt H.C.), **262**, 812
- The molecular environment of S106 IR (Richer J.S., Padman R., Ward-Thompson D., Hills R.E., Harris A.I.), **262**, 839
- HCO⁺ emission in the HH7–11 region: the slowest component of the outflow? (Dent W.R.F., Cunningham C., Hayward R., Davies S.R., Wade D., Avery L.W., Mayer C.J., Masuda N.T.), **262**, L13
- The gravitational stability of a compressed slab of gas (Lubow S.H., Pringle J.E.), **263**, 701
- Thresholds and the chemical evolution of galactic discs (Chamcham K., Pitts E., Tayler R.J.), **263**, 967

- Submillimetre cosmology (Blain A.W., Longair M.S.), **264**, 509
 Multiple fragmentation in collapsing protostars (Burkert A., Bodenheimer P.), **264**, 798
 High-resolution millimetre and submillimetre continuum observations of M17SW – II. Identification of embedded sources associated with H₂O masers (Hobson M.P., Padman R., Scott P.F., Prestage R.M., Ward-Thompson D.), **264**, 1025
 Constraints on the outflow in S106IR from He I 2.058-μm absorption-line and H I emission-line profiles (Drew J.E., Bunn J.C., Hoare M.G.), **265**, 12
N-body simulations of star-disc captures in globular clusters (Murray S.D., Clarke C.J.), **265**, 169
 Previously unresolved *IRAS* sources in the ρ Oph A cloud (Ward-Thompson D.), **265**, 493
 Three-dimensional hydrodynamic simulations of collapsing prolate clouds (Nelson R.P., Papaloizou J.C.B.), **265**, 905
 Millimetre background radiation and galaxy formation (Blain A.W., Longair M.S.), **265**, L21
- Fundamental parameters**
- CCD photometry of the eclipsing binary RU UMi (Bell S.A., Hilditch R.W., Edwin R.P.), **260**, 478
 CCD photometry of variable stars in the Magellanic Clouds – III. The eclipsing binary HV 12484 (Tobin W., Duncan S.P.R., West S.R.D., Gilmore A.C.), **260**, 777
 HW Virginis: a short-period eclipsing binary containing an sdB star (Wood J.H., Zhang E.-H., Robinson E.L.), **261**, 103
 Strömgren and H β photometry of OB associations and open clusters – II. Tr 16 and Car OB2 (Kaltcheva N.T., Georgiev L.N.), **261**, 847
 Non-linear radial pulsations of hot extreme helium stars (Fadeyev Yu.A.), **262**, 119
 Light-curve solutions for S Cancri and TT Hydreae with rapid rotation (Van Hamme W., Wilson R.E.), **262**, 220
 IK Peg – a nearby, short-period, Sirius-like system (Wonnacott D., Kellett B.J., Stickland D.J.), **262**, 277
 New light on UU Sagittae (Pollacco D.L., Bell S.A.), **262**, 377
 Improved effective temperatures for hydrogen-deficient binary stars (Dudley R.E., Jeffery C.S.), **262**, 945
ROSAT/IUE discovery of a white dwarf companion to HD 33959C (F4V) (Hodgkin S.T., Barstow M.A., Fleming T.A., Monier R., Pye J.P.), **263**, 229
 Can a local bulge be differentiated? (Hernández-Pajares M.), **264**, 1
 The gravities of K giant stars determined from [O I] and OH features (Bonnell J.T., Bell R.A.), **264**, 319
 Further determinations of the gravities of cool giant stars using Mg I and MgH features (Bonnell J.T., Bell R.A.), **264**, 334
 A comparison between observed and calculated *IRAS* fluxes of G and K giant stars (Bell R.A.), **264**, 345
 The absolute magnitudes of RR Lyrae stars – V. WY Antliae, W Crateris, RV Octantis and BB Puppis (Skillen I., Fernley J.A., Stobie R.S., Jameson R.F.), **265**, 301
 Fundamental parameters for M4, the nearest globular cluster (Dixon R.I., Longmore A.J.), **265**, 395
 The effective temperatures of Am stars from the infrared flux method (Smalley B.), **265**, 1035
 Eclipsing binaries in the Magellanic Clouds – II. Absolute dimensions and distance modulus for HV 5936 in the Large Magellanic Cloud (Bell S.A., Hill G., Hilditch R.W., Clausen J.V., Reynolds A.P.), **265**, 1047
- Giant**
- Massive Thorne-Żytkow objects: structure and nucleosynthesis (Cannon R.C.), **263**, 817
 The gravities of K giant stars determined from [O I] and OH features (Bonnell J.T., Bell R.A.), **264**, 319
 Further determinations of the gravities of cool giant stars using Mg I and MgH features (Bonnell J.T., Bell R.A.), **264**, 334
 A comparison between observed and calculated *IRAS* fluxes of G and K giant stars (Bell R.A.), **264**, 345
- Hertzsprung–Russell (HR) diagram**
- The distribution of low-mass stars in the Galactic disc (Kroupa P., Tout C.A., Gilmore G.), **262**, 545
 On the giant, horizontal and asymptotic branches of Galactic globular clusters – V. CCD photometry of NGC 1261 (Ferraro F.R., Clementini G., Fusi Pecci F., Vitiello E., Buonanno R.), **264**, 273
 The chemical inhomogeneity of M13 (Folgheraiter E.L., Penny A.J., Griffiths W.K.), **264**, 991
- Luminosity and radial velocity variations of the six coolest extreme helium stars (Lawson W.A., Kilkenny D., van Wyk F., Marang F., Pollard K., Ryder S.D.), **265**, 351
 Photometric study of the intermediate-age open cluster Be 33 (Mazur B., Kaluzny J., Krzeminski W.), **265**, 405
 Low-mass stars in the Hyades (Reid N.), **265**, 785
- Horizontal branch**
- Kinematics in the outer parts of the SMC (Hatzidimitriou D., Cannon R.D., Hawkins M.R.S.), **261**, 873
- Individual: DX And**
- The donor star of the long-period dwarf nova DX Andromedae (Drew J.E., Jones D.H.P., Woods J.A.), **260**, 803
- Individual: FO Aqr**
- Disc-overflow accretion in the intermediate polar FO Aquarii (Hellier C.), **265**, L35
- Individual: V1315 Aql**
- Evidence for non-axisymmetric absorption in V1315 Aquilae (Smith R.C., Fidlik R.J., Hawkins N.A., Catalán M.S.), **264**, 619
- Individual: TT Ari**
- Is the accretion disc of TT Ari hotter after a minimum? (Tout C.A., Pringle J.E., la Dous C.), **265**, L5
- Individual: 9 Aur**
- The 9 Aurigae system (Krisciunas K., Aspin C., Geballe T.R., Akazawa H., Claver C.F., Guinan E.F., Landis H.J., Luedke K.D., Ohkura N., Ohshima O., Skillman D.R.), **263**, 781
- Individual: S Cnc**
- Light-curve solutions for S Cancri and TT Hydreae with rapid rotation (Van Hamme W., Wilson R.E.), **262**, 220
- Individual: β Cma**
- The first measurement of the Lyman continuum emission from normal stars (Hoare M.G., Drew J.E., Denby M.), **262**, L19
- Individual: ϵ Cma**
- The first measurement of the Lyman continuum emission from normal stars (Hoare M.G., Drew J.E., Denby M.), **262**, L19
- Individual: YZ Cmi**
- Microwave radio emission from the red dwarf star YZ Cmi (Spencer R.E., Davis R.J., Zafiroopoulos B., Nelson R.F.), **265**, 231
- Individual: TU Cas**
- An investigation of the double-mode Cepheid TU Cassiopeiae – I. Atmospheric parameters and chemical composition (Andrievsky S.M., Kovtyukh V.V., Makarenko E.N., Usenko I.A.), **265**, 257
- Individual: V854 Cen**
- Optical emission bands in the spectrum of the R CrB star V854 Cen at minimum (Rao N.K., Lambert D.L.), **263**, L27
 High-velocity spectral features in V854 Centauri: evidence for dust formation? (Clayton G.C., Lawson W.A., Whitney B.A., Pollacco D.L.), **264**, L13
- Individual: Cen X-4**
- An ellipsoidal study of Centaurus X-4 (Shahbaz T., Naylor T., Charles P.A.), **265**, 655
- Individual: α Cir**
- Radial pulsation and the rotation period of the rapidly oscillating Ap star α Circini (HR 5463, HD 128898) (Kurtz D.W., Martinez P., Ashley R.P.), **264**, 529
- Individual: AR Cir**
- Recovery of the classical nova AR Cir (Duerbeck H.W., Grebel E.K.), **265**, L9
- Individual: Cir X-1**
- Circinus X-1: a runaway binary with curved radio jets (Stewart R.T., Caswell J.L., Haynes R.F., Nelson G.J.), **261**, 593
 H α position determination of the binary Circinus X-1 (Duncan A.R., Stewart R.T., Haynes R.F.), **265**, 157
- Individual: λ Columbae**
- The cause of variability of λ Columbae (Jerzykiewicz M., Sterken C.), **260**, 826
- Individual: TV Col**
- The four periodicities of the cataclysmic variable TV Columbae (Hellier C.), **264**, 132

- TV Columbae in outburst: a mass transfer event? (Hellier C., Buckley D.A.H.), 265, 766**
- Individual: TX Col**
The accretion curtain model for intermediate polars – I. A kinematical model for radial velocity and velocity dispersion (Ferrario L., Wickramasinghe D.T., King A.R.), 260, 149
- Individual: 21 Com**
On the nature of the short-period variability of 21 Com (Ventura R., Rodonò M.), 263, 742
- Individual: R CrB**
The pulsational nature of R Coronae Borealis: light and radial velocity variations during 1990 and 1991 (Fernie J.D., Lawson W.A.), 265, 899
- Individual: V404 Cyg**
The evolutionary status of the black hole candidate V404 Cygni (King A.R.), 260, L5
- Individual: Cyg X-3**
Cygus X-3 light-curve model in the TeV energy region (Moskalenko I.V., Karakula S., Tkaczyk W.), 260, 681
- Unified model fitting to variable X-ray spectra of Cygnus X-3 (Nakamura H., Matsuoka M., Kawai N., Yoshida A., Miyoshi S., Kitamoto S., Yamashita K.), 261, 353
- The ionization structure of Cygnus X-3: a massive iron-depleted companion? (Terasawa N., Nakamura H.), 265, L1
- Individual: Nova Cygni 1992**
Nova Cygni 1992: spectral development in the near-infrared at maximum light (Andrillat Y., Houziaux L.), 261, L1
- Individual: AB Dor**
Coronal activity from AB Dor and RST 137B (Beasley A.J., Cram L.E.), 264, 570
- Individual: UZ For**
ROSAT observations of UZ For: evidence of a structured X-ray emission region (Ramsay G., Rosen S.R., Mason K.O., Cropper M.S., Watson M.G.), 262, 993
- Individual: α Her**
Elemental abundance analyses with DAO spectrograms – XI. The early B stars Gamma Pegasi and Iota Herculis (Pintado O.I., Adelman S.J.), 264, 63
- Individual: V652 Her**
Excitation of the pulsation in the helium star V652 Her (Saio H.), 260, 465
- Individual: V795 Her**
A 4.86-h periodic modulation in the UV resonance lines of the cataclysmic variable V795 Herculis (Prinja R.K., Rosen S.R.), 262, L37
- Individual: Her X-1**
The noise in the 35-d cycle of Her X-1 (Baykal A., Boynton P.E., Deeter J.E., Scott D.M.), 265, 347
- Individual: WW Hor**
Changes of accretion spot longitude in eclipsing AM Herculis binaries (Bailey J., Wickramasinghe D.T., Ferrario L., Hough J.H., Cropper M.), 261, L31
- Individual: EX Hyα**
The accretion curtain model for intermediate polars – I. A kinematical model for radial velocity and velocity dispersion (Ferrario L., Wickramasinghe D.T., King A.R.), 260, 149
- X-ray observations of EX Hydrae with the *Einstein* Solid State Spectrometer (Singh J., Swank J.), 262, 1000
- Individual: TT Hyα**
Light-curve solutions for S Cancri and TT Hydrea with rapid rotation (Van Hamme W., Wilson R.E.), 262, 220
- Individual: DP Leo**
Cyclotron humps in AM Her systems – V. Two poles in DP Leo (Cropper M., Wickramasinghe D.T.), 260, 696
- Changes of accretion spot longitude in eclipsing AM Herculis binaries (Bailey J., Wickramasinghe D.T., Ferrario L., Hough J.H., Cropper M.), 261, L31
- Individual: ST LMi**
Detection of cyclotron emission features in the infrared spectrum of ST LMi (Ferrario L., Bailey J., Wickramasinghe D.T.), 262, 285
- Individual: RS Oph**
Bipolar recurrent nova outbursts – I. Hydrodynamic models (Lloyd H.M., Bode M.F., O'Brien T.J., Kahn F.D.), 265, 457
- Individual: γ Peg**
Elemental abundance analyses with DAO spectrograms – XI. The early B stars Gamma Pegasi and Iota Herculis (Pintado O.I., Adelman S.J.), 264, 63
- Individual: IK Peg**
IK Peg – a nearby, short-period, Sirius-like system (Wonnacott D., Kellett B.J., Stickland D.J.), 262, 277
- Individual: AW Per**
An orbital solution for the binary Cepheid AW Per (Vinkó J.), 260, 273
- Individual: AX Per**
A multi-frequency study of symbiotic stars – III. Simultaneous ultraviolet and optical observations of AX Persei (Ivison R.J., Bode M.F., Evans A., Skopal A., Meaburn J.), 264, 875
- Individual: GK Per**
The nebular remnant and quiescent spectrum of Nova GK Persei (Anupama G.C., Prabhu T.P.), 263, 335
- Individual: β Pic**
Mid-infrared spectroscopy of Beta Pictoris: constraints on the dust grain size (Aitken D.K., Moore T.J.T., Roche P.F., Smith C.H., Wright C.M.), 265, L41
- Individual: VV Pup**
A survey for QPOs in AM Herculis stars and a detailed study of the QPOs in AN Ursae Majoris (Ramseyer T.F., Robinson E.L., Zhang E., Wood J.H., Stiening R.F.), 260, 209
- Individual: UU Sge**
New light on UU Sagittae (Pollacco D.L., Bell S.A.), 262, 377
- Individual: v Sgr**
Improved effective temperatures for hydrogen-deficient binary stars (Dudley R.E., Jeffery C.S.), 262, 945
- Individual: RY Sgr**
The analysis of indexed astronomical time series – II. The O–C (observed–calculated) technique reconsidered (Lombard F., Koen C.), 263, 309
- Individual: WX Ser**
A model for the circumstellar envelope of WX Ser (Griffin I.P.), 260, 831
- Individual: 63 Tau**
The effective temperatures of Am stars from the infrared flux method (Smalley B.), 265, 1035
- Individual: RR Tel**
Further evidence for Raman scattering in RR Tel (van Groningen E.), 264, 975
- Individual: AN UMa**
A survey for QPOs in AM Herculis stars and a detailed study of the QPOs in AN Ursae Majoris (Ramseyer T.F., Robinson E.L., Zhang E., Wood J.H., Stiening R.F.), 260, 209
- Individual: RU UMi**
CCD photometry of the eclipsing binary RU UMi (Bell S.A., Hilditch R.W., Edwin R.P.), 260, 478
- Individual: HW Vir**
HW Virginis: a short-period eclipsing binary containing an sdB star (Wood J.H., Zhang E.-H., Robinson E.L.), 261, 103
- Individual: DR Vul**
Period changes in the eclipsing binary DR Vulpeculae (Wolf M., Diethelm R.), 263, 527
- Individual: 1H0551–819**
1H0551–819: discovery of a new cataclysmic variable from the *HEAO-1* Survey (Buckley D.A.H., Remillard R.A., Tuohy I.R., Warner B., Sullivan D.J.), 265, 926

- Individual: 2S 0114 + 650**
CCD photometry of the massive X-ray binary 2S 0114 + 650 (Bell S.A., Hilditch R.W., Pollacco D.L.), **265**, 1042
- Individual: 4U 1820–30**
Simultaneous *ROSAT/Ginga* observations of 4U 1820–30 (van der Klis M., Hasinger G., Dotani T., Mitsuda K., Verbunt F., Murphy B.W., van Paradijs J., Belloni T., Makishima K., Morgan E., Lewin W.H.G.), **260**, 686
- Individual: Algol**
The evolutionary status of β Per (Sarna M.J.), **262**, 534
- Individual: AS 304**
Heavy mass loss from the symbiotic star AS 304 (Munari U., Buson L.M.), **263**, 267
- Individual: G38–13**
Studies of multiple stellar systems – I. The halo star G38–13 (Mazeh T., Krymolowski Y., Latham D.W.), **263**, 775
- Individual: G191–B2B**
ROSAT EUV and soft X-ray studies of atmospheric composition and structure in G191–B2B (Barstow M.A., Fleming T.A., Finley D.S., Koester D., Diamond C.J.), **260**, 631
- Individual: Gliese 841A**
Gliese 841A: an EUV-selected chromospherically active binary system (Jeffries R.D., Bromage G.E.), **260**, 132
- Individual: HD 44179**
On the nebular absorption and re-emission of the ultraviolet flux from HD 44179 (Webster A.), **262**, L59
- Individual: HD 84041**
A frequency analysis of the rapidly oscillating Ap star HD 84041 and a determination of its rotation period (Martinez P., Kurtz D.W., Kreidl T.J., Koen C., van Wyk F., Marang F., Roberts G.), **263**, 273
- Individual: HD 119027**
The discovery and analysis of a rich *p*-mode oscillation spectrum in the Ap star HD 119027 (Martinez P., Kurtz D.W., Meintjes P.J.), **260**, 9
- Individual: HD 153919**
The radial velocity and binarity of HD 153919 (4U 1700–37) (Stickland D.J., Lloyd C.), **264**, 935
- Individual: HD 197890**
Prominence activity on the rapidly rotating field star HD 197890 (Jeffries R.D.), **262**, 369
- Speedy Mic:** a very young, rapidly rotating K star (Anders G.J., Jeffries R.D., Kellett B.J., Coates D.W.), **265**, 941
- Individual: HR 1099**
VLBI observations of a strong radio flare in HR 1099 (Trigilio C., Umana G., Migenes V.), **260**, 903
- Individual: HR 2680**
The extraordinary early-type eclipsing binary HR 2680 (Balona L.A., Cuypers J.), **261**, 1
- Individual: HR 3831**
Phase instability and non-linearity in the distorted dipole pulsation mode of the rapidly oscillating Ap star HR 3831 (HD 83368) (Kurtz D.W., Kanaan A., Martinez P.), **260**, 343
- Individual: HV 899**
Surface brightness distance determinations to the Large Magellanic Cloud Cepheid variables HV 899 and 2257 (Gieren W.P.), **265**, 184
- Individual: HV 1761**
CCD photometry of variable stars in the Magellanic Clouds – IV. The eclipsing binary HV 1761 and nearby field variables (Duncan S.P.R., Tobin W., Watson R.D., Gilmore A.C.), **265**, 189
- Individual: HV 2257**
Surface brightness distance determinations to the Large Magellanic Cloud Cepheid variables HV 899 and 2257 (Gieren W.P.), **265**, 184
- Individual: HV 5936**
Eclipsing binaries in the Magellanic Clouds – II. Absolute dimensions and distance modulus for HV 5936 in the Large Magellanic Cloud (Bell S.A., Hill G., Hilditch R.W., Clausen J.V., Reynolds A.P.), **265**, 1047
- Individual: HV 12484**
CCD photometry of variable stars in the Magellanic Clouds – III. The eclipsing binary HV 12484 (Tobin W., Duncan S.P.R., West S.R.D., Gilmore A.C.), **260**, 777
- Individual: LkH α 264**
Optical and ultraviolet observations of the star LkH α 264 (Gameiro J.F., Lago M.T.V.T., Lima N.M., Cameron A.C.), **261**, 11
- Rotational velocities for T Tauri stars with strong emission lines** (Gameiro J.F., Lago M.T.V.T.), **265**, 359
- Individual: LSI + 61° 235**
Infrared and optical observations of the newly identified Be/X-ray binary LSI + 61° 235 (Coe M.J., Everall C., Norton A.J., Roche P., Unger S.J., Fabregat J., Reglero V., Grunsfeld J.M.), **261**, 599
- Individual: Proxima**
Is Proxima really in orbit about α Cen A/B? (Matthews R., Gilmore G.), **261**, L5
- Individual: Rapid Burster**
Unusual features in the persistent emission of the Rapid Burster (Lubin L.M., Lewin W.H.G., van Paradijs J., van der Klis M.), **261**, 149
- Individual: RE0515 + 324**
ROSAT/IUE discovery of a white dwarf companion to HD 33959C (F4V) (Hodgkin S.T., Barstow M.A., Fleming T.A., Monier R., Pye J.P.), **263**, 229
- Individual: RE0618 + 75**
RE0618 + 75: a very short-period, binary dMe system (Jeffries R.D., Elliott K.H., Kellett B.J., Bromage G.E.), **265**, 81
- Individual: RE0751 + 14**
RE0751 + 14, the first ‘intermediate’ polar? (Rosen S.R., Mittaz J.P.D., Hakala P.J.), **264**, 171
- Individual: RE1016–05**
RE1016–05: a white dwarf binary discovered with the *ROSAT* Wide Field Camera (Jomaron C.M., Branduardi-Raymont G., Bromage G.E., Hassall B.J.M., Hodgkin S.T., Mason K.O., Naylor T., Watson M.G.), **264**, 219
- Individual: RE1844–74**
RE1844–74: a new AM Her star from the *ROSAT* Wide Field Camera Survey (O’Donoghue D., Mason K.O., Chen A., Hassall B.J.M., Watson M.G.), **265**, 545
- Individual: RE1938–461**
Discovery of an EUV-bright polar in the period gap from the *ROSAT* Wide Field Camera sky survey (Buckley D.A.H., O’Donoghue D., Hassall B.J.M., Kellett B.J., Mason K.O., Sekiguchi K., Watson M.G., Wheatley P.J., Chen A.), **262**, 93
- Individual: RE2107–05**
The discovery of a new bright eclipsing AM Her system (Hakala P.J., Watson M.G., Vilhu O., Hassall B.J.M., Kellett B.J., Mason K.O., Piironen V.), **263**, 61
- Individual: RST 137B**
Coronal activity from AB Dor and RST 137B (Beasley A.J., Cram L.E.), **264**, 570
- Individual: Sirius**
A comparison between observed and calculated *IRAS* fluxes of G and K giant stars (Bell R.A.), **264**, 345
- Individual: Sk 160**
Optical spectroscopy of the massive X-ray binary SMC X-1/Sk 160 (Reynolds A.P., Hilditch R.W., Bell S.A., Hill G.), **261**, 337
- Individual: SS 433**
An extended disc around SS 433 (Fabrika S.N.), **261**, 241
- Individual: V2009–65.5**
Discovery of another AM Her variable in the period gap (Wickramasinghe D.T., Ferrario L., Bailey J.A., Drissen L., Dopita M.A., Shara M., Hough J.H.), **265**, L29
- Individual: Vega**
A comparison between observed and calculated *IRAS* fluxes of G and K giant stars (Bell R.A.), **264**, 345
- Individual: X1755–33**
Cosmic-abundance absorption dips in X1755–33 (Church M.J., Balucinska-Church M.), **260**, 59

- Individual: X1820–303**
Ginga observations of X1820–303 in the globular cluster NGC 6624 (Ercan E.N., Cruise A.M., Kellett B.J., Saygili K.), **262**, 511
- Individual: X1957 + 11**
 Is X1957 + 11 a black hole candidate? (Yaqoob T., Ebisawa K., Mitsuda K.), **264**, 411
- Interiors**
 Rotational evolution of solar-type stars with core-envelope decoupling (Jianke L., Collier Cameron A.), **261**, 766
- The stability of massive main-sequence stars (Glatzel W., Kiriakidis M.), **262**, 85
- The opacity mechanism in B-type stars – I. Unstable modes in β Cephei star models (Dziembowski W.A., Pamyatnykh A.A.), **262**, 204
- On non-radial oscillations of B-type stars (Gautschy A., Saio H.), **262**, 213
- On the structure and secular stability of plane-parallel stellar objects (Roxburgh I.W.), **264**, 636
- The opacity mechanism in B-type stars – II. Excitation of high-order g-modes in main-sequence stars (Dziembowski W.A., Moskalik P., Pamyatnykh A.A.), **265**, 588
- Seismic measurements of the helium abundance and the depth of stellar convection zones (Kosovichev A.G.), **265**, 1053
- Fitting and smoothing of opacity data (Seaton M.J.), **265**, L25
- Kinematics**
 Is Proxima really in orbit about α Cen A/B? (Matthews R., Gilmore G.), **261**, L5
- The kinematics of active late-type stars observed by the *ROSAT* Wide Field Camera (Jeffries R.D., Jewell S.J.), **264**, 106
- Late-type**
 The *ROSAT* Wide Field Camera all-sky survey of extreme-ultraviolet sources – I. The Bright Source Catalogue (Pounds K.A. et al.), **260**, 77
- Rotational evolution of solar-type stars with core-envelope decoupling (Jianke L., Collier Cameron A.), **261**, 766
- The chromospheres of late-type stars – II. An atlas of chromospheric lines for selected early-K stars (Thatcher J.D., Robinson R.D.), **262**, 1
- A model for the formation, evolution and structure of the solar cylinder (Sommer-Larsen J., Antonuccio-Delogu V.), **262**, 350
- Rotation periods of selected members of the α Persei cluster (O'Dell M.A., Collier Cameron A.), **262**, 521
- Formaldehyde in oxygen-rich circumstellar envelopes (Millar T.J., Olofsson H.), **262**, L55
- Grain mantles in the Taurus dark cloud (Smith R.G., Sellgren K., Brooke T.Y.), **263**, 749
- A variable star in the vicinity of the soft γ -ray repeater 1806–20 (Irwin M., Zytkow A.N.), **263**, L1
- The kinematics of active late-type stars observed by the *ROSAT* Wide Field Camera (Jeffries R.D., Jewell S.J.), **264**, 106
- A model atmosphere investigation of the effect of irradiation on the secondary star in a dwarf nova (Brett J.M., Smith R.C.), **264**, 641
- On magnetic fields, stellar coronae and dynamo action in late-type dwarfs (Montesinos B., Jordan C.), **264**, 900
- Speedy Mic: a very young, rapidly rotating K star (Anders G.J., Jeffries R.D., Kellett B.J., Coates D.W.), **265**, 941
- A new method for estimating the distance of young open clusters (Hendry M.A., O'Dell M.A., Collier Cameron A.), **265**, 983
- Low-mass, brown dwarfs**
 Dynamical biasing in binary star formation: implications for brown dwarfs in binaries (McDonald J.M., Clarke C.J.), **262**, 800
- RJHK* photometry of low-mass stars and brown dwarfs in the Pleiades (Steele I.A., Jameson R.F., Hamby N.C.), **263**, 647
- Luminosity function, mass function**
 Disc-shocking and the mass function of Galactic globular clusters (Capaccioli M., Piotto G., Stiavelli M.), **261**, 819
- The distribution of low-mass stars in the Galactic disc (Kroupa P., Tout C.A., Gilmore G.), **262**, 545
- Low-mass stars in the Hyades (Reid N.), **265**, 785
- Magnetic fields**
 The magnetic field configurations of AM Herculis binaries (Wu K., Wickramasinghe D.T.), **260**, 141
- The accretion curtain model for intermediate polars – I. A kinematical model for radial velocity and velocity dispersion (Ferrario L., Wickramasinghe D.T., King A.R.), **260**, 149
- A polarimetric investigation of a magnetically driven Be star wind (Fox G.K.), **260**, 525
- Cyclotron humps in AM Her systems – V. Two poles in DP Leo (Cropper M., Wickramasinghe D.T.), **260**, 696
- The accretion of diamagnetic blobs by a rotating magnetosphere (King A.R.), **261**, 144
- Rotational evolution of solar-type stars with core-envelope decoupling (Jianke L., Collier Cameron A.), **261**, 766
- Discovery of an EUV-bright polar in the period gap from the *ROSAT* Wide Field Camera sky survey (Buckley D.A.H., O'Donoghue D., Hassall B.J.M., Kellett B.J., Mason K.O., Sekiguchi K., Watson M.G., Wheatley P.J., Chen A.), **262**, 93
- Detection of cyclotron emission features in the infrared spectrum of ST LMi (Ferrario L., Bailey J., Wickramasinghe D.T.), **262**, 285
- Prominence activity on the rapidly rotating field star HD 197890 (Jeffries R.D.), **262**, 369
- Rotation periods of selected members of the α Persei cluster (O'Dell M.A., Collier Cameron A.), **262**, 521
- Thermo-centrifugal wind from a rotating magnetic dipole (Washimi H., Shibata S.), **262**, 936
- ROSAT* observations of UZ For: evidence of a structured X-ray emission region (Ramsay G., Rosen S.R., Mason K.O., Cropper M.S., Watson M.G.), **262**, 993
- X-ray observations of EX Hydrae with the *Einstein* Solid State Spectrometer (Singh J., Swank J.), **262**, 1000
- RE0751 + 14, the first 'intermediate' polar? (Rosen S.R., Mittaz J.P.D., Hakala P.J.), **264**, 171
- On magnetic fields, stellar coronae and dynamo action in late-type dwarfs (Montesinos B., Jordan C.), **264**, 900
- Magnetic moment distribution of magnetic cataclysmic variables – II. Effects due to period distribution (Wu K., Wickramasinghe D.T.), **265**, 115
- Simulation of the X-ray light curves of intermediate polars (Norton A.J.), **265**, 316
- RE1844–74: a new AM Her star from the *ROSAT* Wide Field Camera Survey (O'Donoghue D., Mason K.O., Chen A., Hassall B.J.M., Watson M.G.), **265**, 545
- A model for the optical continuum and Balmer emission lines in intermediate polars (Ferrario L., Wickramasinghe D.T.), **265**, 605
- TV Columbae in outburst: a mass transfer event? (Hellier C., Buckley D.A.H.), **265**, 766
- 1H0551–819: discovery of a new cataclysmic variable from the *HEAO-1* Survey (Buckley D.A.H., Remillard R.A., Tuohy I.R., Warner B., Sullivan D.J.), **265**, 926
- Is the accretion disc of TT Ari hotter after a minimum? (Tout C.A., Pringle J.E., la Dous C.), **265**, L5
- Discovery of another AM Her variable in the period gap (Wickramasinghe D.T., Ferrario L., Bailey J.A., Drissen L., Dopita M.A., Shara M., Hough J.H.), **265**, L29
- Disc-overflow accretion in the intermediate polar FO Aquarii (Hellier C.), **265**, L35
- Mass-loss**
 Ballistic stellar jets from sources with a time-dependent ejection direction (Raga A.C., Cantó J., Biro S.), **260**, 163
- Imaging polarimetry of the bipolar nebula Parsamyan 22 (Scarrott S.M., Draper P.W., Tadhunter C.N.), **260**, 171
- Modelling of X-ray emission from WR + O binary systems (Myasnikov A.V., Zhekov S.A.), **260**, 221
- Mass-loss rates and C/He ratios in the winds of the WC central stars of planetary nebulae (de Freitas Pacheco J.A., Costa R.D.D., de Araújo F.X., Petrucci D.), **260**, 401
- A polarimetric investigation of a magnetically driven Be star wind (Fox G.K.), **260**, 525
- The ionization state of the winds from cataclysmic variables without classical boundary layers (Hoare M.G., Drew J.E.), **260**, 647
- A model for the circumstellar envelope of WX Ser (Griffin I.P.), **260**, 831
- The evolutionary status of the black hole candidate V404 Cygni (King A.R.), **260**, L5
- An extended disc around SS 433 (Fabrika S.N.), **261**, 241
- The nature of the Napoleon's Hat nebula of SN 1987A (Wang L., Dyson J.E., Kahn F.D.), **261**, 391

- Mass-loaded astronomical flows – IV. A time-dependent hydrodynamic model of an observed clumpy wind-blown bubble, RCW 58 (Arthur S.J., Dyson J.E., Hartquist T.W.), 261, 425
- Mass-loaded astronomical flows – V. Tails: intermediate-scale structures in flowing clumpy media (Dyson J.E., Hartquist T.W., Biro S.), 261, 430
- The structure of knots in variable stellar jets – I. Symmetric knots (Falle S.A.E.G., Raga A.C.), 261, 573
- Light-curve solutions for S Cancri and TT Hydræ with rapid rotation (Van Hamme W., Wilson R.E.), 262, 220
- Circumstellar dust emission in five Large Magellanic Cloud supergiants (Roche P.F., Aitken D.K., Smith C.H.), 262, 301
- The evolutionary status of β Per (Sarna M.J.), 262, 534
- Thermo-centrifugal wind from a rotating magnetic dipole (Washimi H., Shibata S.), 262, 936
- Heavy mass loss from the symbiotic star AS 304 (Munari U., Buson L.M.), 263, 267
- Millimetre and submillimetre continuum observations of Nova Cygni 1992: a new test of mass ejection models (Ivison R.J., Hughes D.H., Lloyd H.M., Bang M.K., Bode M.F.), 263, L43
- High-velocity spectral features in V854 Centauri: evidence for dust formation? (Clayton G.C., Lawson W.A., Whitney B.A., Pollacco D.L.), 264, L13
- Bipolar recurrent nova outbursts – I. Hydrodynamic models (Lloyd H.M., Bode M.F., O'Brien T.J., Kahn F.D.), 265, 457
- The chemical composition of Algol systems – V. Confirmation of carbon deficiencies in the primaries of eight systems (Tomkin J., Lambert D.L., Lemke M.), 265, 581
- On determining the wind velocity profiles of early-type stars in massive X-ray binary systems (Stevens I.R.), 265, 601
- Wind accretion in binary stars – I. Intricacies of the flow structure (Theuns T., Jorissen A.), 265, 946
- The ionization structure of Cygnus X-3: a massive iron-depleted companion? (Terasawa N., Nakamura H.), 265, L1
- Neutron**
- The effects of QCD parameters on the quark core dimensions in compact stars (de Freitas Pacheco J.A., Horvath J.E., de Araujo J.C.N., Cattani M.), 260, 499
- A second giant glitch in PSR 1641–45 (Flanagan C.S.), 260, 643
- The merger rate of neutron star and black hole binaries (Tutukov A.V., Yungelson L.R.), 260, 675
- The suppression of pulsar and gamma-ray burst annihilation lines by magnetic photon splitting (Baring M.G.), 262, 20
- Formation of low-mass binaries with millisecond pulsars (Muslimov A.G., Sarna M.J.), 262, 164
- How young are the low-mass X-ray binaries? Conclusions from a flux-limited sample (Naylor T., Podsiadlowski Ph.), 262, 929
- Gamma-ray emission from the reignited magnetospheres of dead pulsars: a possible source of gamma-ray bursts (Cheng K.S., Ding K.Y.), 262, 1037
- The Magellanic Clouds as the source of gamma-ray bursters (Fabian A.C., Podsiadlowski P.), 263, 49
- Rotation of the neutron-drip superfluid in pulsars: evidence for corotating vortices (Jones P.B.), 263, 619
- Massive Thorne–Żytkow objects: structure and nucleosynthesis (Cannor R.C.), 263, 817
- Is X1957 + 11 a black hole candidate? (Yaqoob T., Ebisawa K., Mitsuda K.), 264, 411
- On determining the wind velocity profiles of early-type stars in massive X-ray binary systems (Stevens I.R.), 265, 601
- An ellipsoidal study of Centaurus X-4 (Shahbaz T., Naylor T., Charles P.A.), 265, 655
- Geminga: origins of its X-ray and gamma-ray emission (Harding A.K., Ozernoy L.M., Usov V.V.), 265, 921
- 23 years of Crab pulsar rotational history (Lyne A.G., Pritchard R.S., Smith F.G.), 265, 1003
- Gamma-ray bursts from blast waves around Galactic neutron stars (Begelman M.C., Mészáros P., Rees M.J.), 265, L13
- Evidence for the Galactic origin of gamma-ray bursts (Quashnock J.M., Lamb D.O.), 265, L45
- Evidence that gamma-ray burst sources repeat (Quashnock J.M., Lamb D.O.), 265, L59
- Nova, cataclysmic variables**
- The magnetic field configurations of AM Herculis binaries (Wu K., Wickramasinghe D.T.), 260, 141
- The accretion curtain model for intermediate polars – I. A kinematical model for radial velocity and velocity dispersion (Ferrario L., Wickramasinghe D.T., King A.R.), 260, 149
- A survey for QPOs in AM Herculis stars and a detailed study of the QPOs in AN Ursae Majoris (Ramseyer T.F., Robinson E.L., Zhang E., Wood J.H., Stiening R.F.), 260, 209
- X-ray orbital modulations in intermediate polars (Hellier C., Garlick M.A., Mason K.O.), 260, 299
- The ionization state of the winds from cataclysmic variables without classical boundary layers (Hoare M.G., Drew J.E.), 260, 647
- The donor star of the long-period dwarf nova DX Andromedæ (Drew J.E., Jones D.H.P., Woods J.A.), 260, 803
- Nova Cygni 1992: spectral development in the near-infrared at maximum light (Andrillat Y., Houziaux L.), 261, L1
- Changes of accretion spot longitude in eclipsing AM Herculis binaries (Bailey J., Wickramasinghe D.T., Ferrario L., Hough J.H., Cropper M.), 261, L31
- Discovery of an EUV-bright polar in the period gap from the ROSAT Wide Field Camera sky survey (Buckley D.A.H., O'Donoghue D., Hassall B.J.M., Kellett B.J., Mason K.O., Sekiguchi K., Watson M.G., Wheatley P.J., Chen A.), 262, 93
- Detection of cyclotron emission features in the infrared spectrum of ST LMi (Ferrario L., Bailey J., Wickramasinghe D.T.), 262, 285
- A 4.86-h periodic modulation in the UV resonance lines of the cataclysmic variable V795 Herculis (Prinja R.K., Rosen S.R.), 262, L37
- The discovery of a new bright eclipsing AM Her system (Hakala P.J., Watson M.G., Vilhu O., Hassall B.J.M., Kellett B.J., Mason K.O., Pirola V.), 263, 61
- The nebular remnant and quiescent spectrum of Nova GK Persei (Anupama G.C., Prabhu T.P.), 263, 335
- A three-dimensional smoothed particle hydrodynamics simulation of the active phase of SS Cyg-type discs and its implications for the mass transfer burst model (Lanzafame G., Belvedere G., Molteni D.), 263, 839
- Millimetre and submillimetre continuum observations of Nova Cygni 1992: a new test of mass ejection models (Ivison R.J., Hughes D.H., Lloyd H.M., Bang M.K., Bode M.F.), 263, L43
- The four periodicities of the cataclysmic variable TV Columbae (Hellier C.), 264, 132
- RE0751 + 14, the first ‘intermediate’ polar? (Rosen S.R., Mittaz J.P.D., Hakala P.J.), 264, 171
- Evidence for non-axisymmetric absorption in V1315 Aquilæ (Smith R.C., Fiddik R.J., Hawkins N.A., Catalán M.S.), 264, 619
- A model atmosphere investigation of the effect of irradiation on the secondary star in a dwarf nova (Brett J.M., Smith R.C.), 264, 641
- 3D structure of truncated accretion discs in close binaries (Meglicki Z., Wickramasinghe D., Bicknell G.V.), 264, 691
- A multi-frequency study of symbiotic stars – III. Simultaneous ultraviolet and optical observations of AX Persei (Ivison R.J., Bode M.F., Evans A., Skopal A., Meaburn J.), 264, 875
- Magnetic moment distribution of magnetic cataclysmic variables – II. Effects due to period distribution (Wu K., Wickramasinghe D.T.), 265, 115
- Simulation of the X-ray light curves of intermediate polars (Norton A.J.), 265, 316
- Bipolar recurrent nova outbursts – I. Hydrodynamic models (Lloyd H.M., Bode M.F., O'Brien T.J., Kahn F.D.), 265, 457
- RE1844–74: a new AM Her star from the ROSAT Wide Field Camera Survey (O'Donoghue D., Mason K.O., Chen A., Hassall B.J.M., Watson M.G.), 265, 545
- A model for the optical continuum and Balmer emission lines in intermediate polars (Ferrario L., Wickramasinghe D.T.), 265, 605
- TV Columbae in outburst: a mass transfer event? (Hellier C., Buckley D.A.H.), 265, 766
- 1H0551–819: discovery of a new cataclysmic variable from the HEAO-1 Survey (Buckley D.A.H., Remillard R.A., Tuohy I.R., Warner B., Sullivan D.J.), 265, 926
- Is the accretion disc of TT Ari hotter after a minimum? (Tout C.A., Pringle J.E., la Dous C.), 265, L5
- Recovery of the classical nova AR Cir (Duerbeck H.W., Grebel E.K.), 265, L9
- Discovery of another AM Her variable in the period gap (Wickramasinghe D.T., Ferrario L., Bailey J.A., Drissen L., Dopita M.A., Shara M., Hough J.H.), 265, L29
- Disc-overflow accretion in the intermediate polar FO Aquarii (Hellier C.), 265, L35

Oscillations

- The discovery and analysis of a rich *p*-mode oscillation spectrum in the Ap star HD 119027 (Martinez P., Kurtz D.W., Meintjes P.J.), **260**, 9
A survey for QPOs in AM Herculis stars and a detailed study of the QPOs in AN Ursae Majoris (Ramseyer T.F., Robinson E.L., Zhang E., Wood J.H., Stiening R.F.), **260**, 209
Phase instability and non-linearity in the distorted dipole pulsation mode of the rapidly oscillating Ap star HR 3831 (HD 83368) (Kurtz D.W., Kanaan A., Martinez P.), **260**, 343
Excitation of the pulsation in the helium star V652 Her (Saio H.), **260**, 465
The cause of variability of λ Columbae (Jerzykiewicz M., Sterken C.), **260**, 826
The extraordianry early-type eclipsing binary HR 2680 (Balona L.A., Cuypers J.), **261**, 1
Angular momentum transfer by non-radial oscillations in massive main-sequence stars (Lee U., Saio H.), **261**, 415
The stability of massive main-sequence stars (Glatzel W., Kiriakidis M.), **262**, 85
Non-linear radial pulsations of hot extreme helium stars (Fadeyev Yu.A.), **262**, 119
The opacity mechanism in B-type stars - I. Unstable modes in β Cephei star models (Dziembowski W.A., Pamyatnykh A.A.), **262**, 204
On non-radial oscillations of B-type stars (Gautschy A., Saio H.), **262**, 213
Irregular small-amplitude pulsations in yellow supergiant star models (Aikawa T.), **262**, 893
On the stability and pulsations of Wolf-Rayet stars (Glatzel W., Kiriakidis M., Fricke K.J.), **262**, L7
A frequency analysis of the rapidly oscillating Ap star HD 84041 and a determination of its rotation period (Martinez P., Kurtz D.W., Kreidl T.J., Koen C., van Wyk F., Marang F., Roberts G.), **263**, 273
The analysis of indexed astronomical time series - II. The O-C (observed-calculated) technique reconsidered (Lombard F., Koen C.), **263**, 309
Stability of massive stars and the Humphreys-Davidson limit (Glatzel W., Kiriakidis M.), **263**, 375
On the nature of the short-period variability of 21 Com (Ventura R., Rodonò M.), **263**, 742
A new large-amplitude variable white dwarf (Stobie R.S., Chen A., O'Donoghue D., Kilkenney D.), **263**, L13
The stability of massive stars and its dependence on metallicity and opacity (Kiriakidis M., Fricke K.J., Glatzel W.), **264**, 50
Observation of Beta Cephei candidates in the Jewel Box (Koen C.), **264**, 165
Radial pulsation and the rotation period of the rapidly oscillating Ap star α Circini (HR 5463, HD 128898) (Kurtz D.W., Martinez P., Ashley R.P.), **264**, 529
Pulsating post-asymptotic giant branch stars (Gautschy A.), **265**, 340
The opacity mechanism in B-type stars - II. Excitation of high-order *g*-modes in main-sequence stars (Dziembowski W.A., Moskalik P., Pamyatnykh A.A.), **265**, 588
The pulsational nature of R Coronae Borealis: light and radial velocity variations during 1990 and 1991 (Fernie J.D., Lawson W.A.), **265**, 899
Seismic measurements of the helium abundance and the depth of stellar convection zones (Kosovichev A.G.), **265**, 1053
Peculiar
Strange-pulsar evolution and soft γ -repeaters (Horvath J.E., Vucetic H., Benvenuto O.G.), **262**, 506
Planetary systems
An idealized mechanism for the orbital migration of protoplanets (Mediavilla E., Buitrago J., Portilla M.), **261**, 222
Pre-main-sequence
The dust around the cometary nebula Parsamian 13S (Smith R.G.), **264**, 587
Speedy Mic: a very young, rapidly rotating K star (Anders G.J., Jeffries R.D., Kellett B.J., Coates D.W.), **265**, 941
Excited hydrogen and the formation of molecular hydrogen via associative ionization - I. Physical processes and outflows from young stellar objects (Rawlings J.M.C., Drew J.E., Barlow M.J.), **265**, 968

Pulsars: general

- Observations and modelling of the hard X-ray emission from GX 1 + 4 (Greenhill J.G., Sharma D.P., Dieters S.W.B., Sood R.K., Waldron L., Storey M.C.), **260**, 21
A deep search for pulsed emission from Cassiopeia A (Woan G., Duffett-Smith P.J.), **260**, 693
Pulsar population characteristics and evolution of massive binaries (Rathnasree N.), **260**, 717
Compensation of the pulse profiles of pulsars for interstellar scattering (Kuzmin A.D., Izvekova V.A.), **260**, 724
New determinations of the proper motions of 44 pulsars (Harrison P.A., Lyne A.G., Anderson B.), **261**, 113
Mean pulse polarization of southern pulsars at 1560 MHz (Wu Xinji, Manchester R.N., Lyne A.G., Qiao Guojun), **261**, 630
Timing observations of southern pulsars - 1987 to 1991 (D'Alessandro F., McCulloch P.M., King E.A., Hamilton P.A., McConnell D.), **261**, 883
The modulation of radiation in an electron-positron plasma (Gangadhara R.T., Krishan V., Shukla P.K.), **262**, 151
Formation of low-mass binaries with millisecond pulsars (Muslimov A.G., Sarna M.J.), **262**, 164
Timing parameters for 59 pulsars (Siegmund B.C., Manchester R.N., Durdin J.M.), **262**, 449
Strange-pulsar evolution and soft γ -repeaters (Horvath J.E., Vucetic H., Benvenuto O.G.), **262**, 506
A simple analysis of period noise in binary X-ray pulsars (de Kool M., Anzer U.), **262**, 726
How young are the low-mass X-ray binaries? Conclusions from a flux-limited sample (Naylor T., Podsiadlowski Ph.), **262**, 929
The random magnetic field in the Galaxy (Ohno H., Shibata S.), **262**, 953
Gamma-ray emission from the reignited magnetospheres of dead pulsars: a possible source of gamma-ray bursts (Cheng K.S., Ding K.Y.), **262**, 1037
The Magellanic Clouds as the source of gamma-ray bursters (Fabian A.C., Podsiadlowski P.), **263**, 49
Pulsar statistics: the birthrate and initial spin periods of radio pulsars (Lorimer D.R., Bailes M., Dewey R.J., Harrison P.A.), **263**, 403
Rotation of the neutron-drip superfluid in pulsars: evidence for corotating vortices (Jones P.B.), **263**, 619
Microtexture in the pulsar radio emission zone (Asseo E.), **264**, 940
Evolution of globular cluster pulsars: predictions (Michel F.C.), **265**, 449
Pulsar velocities and the scaleheight of scattering in the Galaxy (Harrison P.A., Lyne A.G.), **265**, 778
Pulsars: individual: Crab
Interpretation of very high-energy gamma-rays from the direction of the Crab nebula (Bogovalov S.V., Kotov Yu.D.), **262**, 75
23 years of Crab pulsar rotational history (Lyne A.G., Pritchard R.S., Smith F.G.), **265**, 1003
Pulsars: individual: Geminga (2GC 195 + 04, 1E 0630 + 178)
Geminga: origins of its X-ray and gamma-ray emission (Harding A.K., Ozernoy L.M., Usov V.V.), **265**, 921
Pulsars: individual: PSR 0031 - 07
Frequency dependence of characteristics of pulsars PSR 0031-07, 0320 + 39, 1133 + 16 and 2016 + 28 (Izvekova V.A., Kuzmin A.D., Lyne A.G., Shitov Yu. P., Smith F.G.), **261**, 865
Pulsars: individual: PSR 0136 + 57
Compensation of the pulse profiles of pulsars for interstellar scattering (Kuzmin A.D., Izvekova V.A.), **260**, 724
Pulsars: individual: PSR 0320 + 39
Frequency dependence of characteristics of pulsars PSR 0031-07, 0320 + 39, 1133 + 16 and 2016 + 28 (Izvekova V.A., Kuzmin A.D., Lyne A.G., Shitov Yu. P., Smith F.G.), **261**, 865
Pulsars: individual: PSR 0531 + 21
Compensation of the pulse profiles of pulsars for interstellar scattering (Kuzmin A.D., Izvekova V.A.), **260**, 724
Pulsars: individual: PSR 1133 + 16
Frequency dependence of characteristics of pulsars PSR 0031-07, 0320 + 39, 1133 + 16 and 2016 + 28 (Izvekova V.A., Kuzmin A.D., Lyne A.G., Shitov Yu. P., Smith F.G.), **261**, 865

- Pulsars: individual: PSR 1641–45**
A second giant glitch in PSR 1641–45 (Flanagan C.S.), 260, 643
Timing parameters for 59 pulsars (Siegman B.C., Manchester R.N., Durdin J.M.), 262, 449
- Pulsars: individual: PSR 1718–19**
Binary pulsar PSR 1718–19 contains a stripped main-sequence turn-off star (Zwitter T.), 264, L3
- Pulsars: individual: PSR B1802–07**
PSR B1802–07: a globular cluster pulsar in an eccentric binary system (D'Amico N., Bailes M., Lyne A.G., Manchester R.N., Johnston S., Fruchter A.S., Goss W.M.), 260, L7
- Pulsars: individual: PSR 2016 + 28**
Frequency dependence of characteristics of pulsars PSR 0031–07, 0320 + 39, 1133 + 16 and 2016 + 28 (Ivezekova V.A., Kuzmin A.D., Lyne A.G., Shitov Yu. P., Smith F.G.), 261, 865
- Pulsars: individual: Vela X-1**
Vela X-1 and its missing third harmonic (Orlandini M.), 264, 181
- Rotation**
The effects of QCD parameters on the quark core dimensions in compact stars (de Freitas Pacheco J.A., Horvath J.E., de Araujo J.C.N., Cattani M.), 260, 499
The cause of variability of λ Columbae (Jerzykiewicz M., Sterken C.), 260, 826
Angular momentum transfer by non-radial oscillations in massive main-sequence stars (Lee U., Saio H.), 261, 415
Rotational evolution of solar-type stars with core-envelope decoupling (Jianke L., Collier Cameron A.), 261, 766
Light-curve solutions for S Cancri and TT Hydreae with rapid rotation (Van Hamme W., Wilson R.E.), 262, 220
Prominence activity on the rapidly rotating field star HD 197890 (Jeffries R.D.), 262, 369
Rotation periods of selected members of the α Persei cluster (O'Dell M.A., Collier Cameron A.), 262, 521
Thermo-centrifugal wind from a rotating magnetic dipole (Washimi H., Shibata S.), 262, 936
A frequency analysis of the rapidly oscillating Ap star HD 84041 and a determination of its rotation period (Martinez P., Kurtz D.W., Kreidl T.J., Koen C., van Wyk F., Marang F., Roberts G.), 263, 273
RE0751 + 14, the first 'intermediate' polar? (Rosen S.R., Mittaz J.P.D., Hakala P.J.), 264, 171
RE 0618 + 75: a very short-period, binary dMe system (Jeffries R.D., Elliott K.H., Kellett B.J., Bromage G.E.), 265, 81
Rotational velocities for T Tauri stars with strong emission lines (Gameiro J.F., Lago M.T.V.T.), 265, 359
Evolution of globular cluster pulsars: predictions (Michel F.C.), 265, 449
Speedy Mic: a very young, rapidly rotating K star (Anders G.J., Jeffries R.D., Kellett B.J., Coates D.W.), 265, 941
A new method for estimating the distance of young open clusters (Hendry M.A., O'Dell M.A., Collier Cameron A.), 265, 983
23 years of Crab pulsar rotational history (Lyne A.G., Pritchard R.S., Smith F.G.), 265, 1003
- Statistics**
A new method for estimating the distance of young open clusters (Hendry M.A., O'Dell M.A., Collier Cameron A.), 265, 983
- Subdwarfs**
HW Virginis: a short-period eclipsing binary containing an sdB star (Wood J.H., Zhang E.-H., Robinson E.L.), 261, 103
- Supergiants**
Circumstellar dust emission in five Large Magellanic Cloud supergiants (Roche P.F., Aitken D.K., Smith C.H.), 262, 301
Irregular small-amplitude pulsations in yellow supergiant star models (Aikawa T.), 262, 893
Stability of massive stars and the Humphreys–Davidson limit (Glatzel W., Kiriakidis M.), 263, 375
The stability of massive stars and its dependence on metallicity and opacity (Kiriakidis M., Fricke K.J., Glatzel W.), 264, 50
- Supernovae: general**
Observations of type II plateau supernovae: SNe 1988A, 1988H and 1989C (Turatto M., Cappellaro E., Benetti S., Danziger I.J.), 265, 471
- Supernovae: individual: 1987A**
The nature of the Napoleon's Hat nebula of SN 1987A (Wang L., Dyson J.E., Kahn F.D.), 261, 391
The evolution of the 8–13 μm spectrum of supernova 1987A (Roche P.F., Aitken D.K., Smith C.H.), 261, 522
Spectroscopy of supernova 1987A at 1–4 μm – II. Days 377 to 1114 (Meikle W.P.S., Spyromilio J., Allen D.A., Varani G.-F., Cumming R.J.), 261, 535
Clumps in Supernova 1987A: the H α line (Hanuschik R.W., Spyromilio J., Stathakis R., Kimeswenger S., Gohermann J., Seidensticker K.J., Meurer G.), 261, 909
Spectroscopic and photometric observations of supernova 1987A – VII. Days 793 to 1770 (Caldwell J.A.R. et al.), 262, 313
Cold bright matter near supernova 1987A (Cumming R.J., Meikle W.P.S.), 262, 689
Clumping and small-scale mixing in supernova 1987A (Spyromilio J., Stathakis R.A., Meurer G.R.), 263, 530
- Supernovae: individual: 1988A**
Observations of type II plateau supernovae: SNe 1988A, 1988H and 1989C (Turatto M., Cappellaro E., Benetti S., Danziger I.J.), 265, 471
- Supernovae: individual: 1988H**
Observations of type II plateau supernovae: SNe 1988A, 1988H and 1989C (Turatto M., Cappellaro E., Benetti S., Danziger I.J.), 265, 471
- Supernovae: individual: 1988Z**
The Type II supernova 1988Z in MCG + 03–28–022: increasing evidence of interaction of supernova ejecta with a circumstellar wind (Turatto M., Cappellaro E., Danziger I.J., Benetti S., Gouffides C., Della Valle M.), 262, 128
- Supernovae: individual: 1989C**
Observations of type II plateau supernovae: SNe 1988A, 1988H and 1989C (Turatto M., Cappellaro E., Benetti S., Danziger I.J.), 265, 471
- Supernovae: individual: 1990E**
Late-time spectral evolution of the Type II supernova 1990E in NGC 1035 (Gómez G., López R.), 263, 767
- Supernovae: individual: 1993J**
Ryle Telescope observations of SN1993J at 15 GHz: the first 115 d (Pooley G.G., Green D.A.), 264, L17
- Variables: Cepheids**
An orbital solution for the binary Cepheid AW Per (Vinkó J.), 260, 273
Light-curve systematics of Cepheids in the infrared (Laneu C.D., Stobie R.S.), 260, 408
CCD photometry of two young Large Magellanic Cloud clusters: NGC 2004 and 2100 (Balona L.A., Jerzykiewicz M.), 260, 782
The young Large Magellanic Cloud clusters NGC 2004 and 2100 and their short-period variables (Balona L.A.), 260, 795
Visual and infrared extinction from Cepheid observations (Laneu C.D., Stobie R.S.), 263, 921
Observation of Beta Cephei candidates in the Jewel Box (Koen C.), 264, 165
Surface brightness distance determinations to the Large Magellanic Cloud Cepheid variables HV 899 and 2257 (Gieren W.P.), 265, 184
CCD photometry of variable stars in the Magellanic Clouds – IV. The eclipsing binary HV 1761 and nearby field variables (Duncan S.P.R., Tobin W., Watson R.D., Gilmore A.C.), 265, 189
An investigation of the double-mode Cepheid TU Cassiopeiae – I. Atmospheric parameters and chemical composition (Andrievsky S.M., Kovtyukh V.V., Makarenko E.N., Usenko I.A.), 265, 257
CCD photometry of the massive X-ray binary 2S 0114 + 650 (Bell S.A., Hilditch R.W., Pollacco D.L.), 265, 1042
- Variables: δ Scuti**
On the nature of the short-period variability of 21 Com (Ventura R., Rodón M.), 263, 742
- Variables: other**
Excitation of the pulsation in the helium star V652 Her (Saio H.), 260, 465
The young Large Magellanic Cloud clusters NGC 2004 and 2100 and their short-period variables (Balona L.A.), 260, 795

- The cause of variability of λ Columbae (Jerzykiewicz M., Sterken C.), 260, 826
- Optical and ultraviolet observations of the star LkH α 264 (Gameiro J.F., Lago M.T.V.T., Lima N.M., Cameron A.C.), 261, 11
- Non-linear radial pulsations of hot extreme helium stars (Fadelyev Yu.A.), 262, 119
- The Oosterhoff effect (van den Bergh S.), 262, 588
- ROSAT* observations of UZ For: evidence of a structured X-ray emission region (Ramsay G., Rosen S.R., Mason K.O., Cropper M.S., Watson M.G.), 262, 993
- On the stability and pulsations of Wolf-Rayet stars (Glatzel W., Kirakidis M., Fricke K.J.), 262, L7
- Stability of massive stars and the Humphreys-Davidson limit (Glatzel W., Kirakidis M.), 263, 375
- The 9 Aurigae system (Krisciunas K., Aspin C., Geballe T.R., Akazawa H., Claver C.F., Guinan E.F., Landis H.J., Luedke K.D., Ohkura N., Ohshima O., Skillman D.R.), 263, 781
- G25.5 + 0.2: a new luminous blue variable in the Galaxy? (Subrahmanyam R., Ekers R.D., Wilson W.E., Goss W.M., Allen D.A.), 263, 888
- A variable star in the vicinity of the soft γ -ray repeater 1806-20 (Irwin M., Zytkow A.N.), 263, L1
- Optical emission bands in the spectrum of the R CrB star V854 Cen at minimum (Rao N.K., Lambert D.L.), 263, L27
- The stability of massive stars and its dependence on metallicity and opacity (Kirakidis M., Fricke K.J., Glatzel W.), 264, 50
- Contact binaries and SX Phe variables in the globular cluster NGC 4372 (Kaluzny J., Krzeminski W.), 264, 785
- High-velocity spectral features in V854 Centauri: evidence for dust formation? (Clayton G.C., Lawson W.A., Whitney B.A., Pollacco D.L.), 264, L13
- Discovery of 17 variable stars in the old open cluster NGC 6791 (Kaluzny J., Ruciński S.M.), 265, 34
- The absolute magnitudes of RR Lyrae stars - V. WY Antliae, W Crateris, RV Octantis and BB Puppis (Skillen I., Fernley J.A., Stobie R.S., Jameson R.F.), 265, 301
- Luminosity and radial velocity variations of the six coolest extreme helium stars (Lawson W.A., Kilkenny D., van Wyk F., Marang F., Pollard K., Ryder S.D.), 265, 351
- Photometric study of the intermediate-age open cluster Be 33 (Mazur B., Kaluzny J., Krzeminski W.), 265, 405
- The pulsational nature of R Coronae Borealis: light and radial velocity variations during 1990 and 1991 (Fernie J.D., Lawson W.A.), 265, 899
- Fitting and smoothing of opacity data (Seaton M.J.), 265, L25
- White dwarfs**
- The *ROSAT* Wide Field Camera all-sky survey of extreme-ultraviolet sources - I. The Bright Source Catalogue (Pounds K.A. et al.), 260, 77
- The magnetic field configurations of AM Herculis binaries (Wu K., Wickramasinghe D.T.), 260, 141
- ROSAT* EUV and soft X-ray studies of atmospheric composition and structure in G191-B2B (Barstow M.A., Fleming T.A., Finley D.S., Koester D., Diamond C.J.), 260, 631
- IK Peg - a nearby, short-period, Sirius-like system (Wonnacott D., Kellett B.J., Stickland D.J.), 262, 277
- Detection of cyclotron emission features in the infrared spectrum of ST LMi (Ferrario L., Bailey J., Wickramasinghe D.T.), 262, 285
- ROSAT/IUE* discovery of a white dwarf companion to HD 33959C (F4V) (Hodgkin S.T., Barstow M.A., Fleming T.A., Monier R., Pye J.P.), 263, 229
- The nebular remnant and quiescent spectrum of Nova GK Persei (Anupama G.C., Prabhu T.P.), 263, 335
- A new large-amplitude variable white dwarf (Stobie R.S., Chen A., O'Donoghue D., Kilkenny D.), 263, L13
- ROSAT* studies of the composition and structure of DA white dwarf atmospheres (Barstow M.A., Fleming T.A., Diamond C.J., Finley D.S., Sansom A.E., Rosen S.R., Koester D., Marsh M.C., Holberg J.B., Kidder K.), 264, 16
- RE1016-05: a white dwarf binary discovered with the *ROSAT* Wide Field Camera (Jomaran C.M., Branduardi-Raymont G., Bromage G.E., Hassall B.J.M., Hodgkin S.T., Mason K.O., Naylor T., Watson M.G.), 264, 219
- 3D structure of truncated accretion discs in close binaries (Meglicki Z., Wickramasinghe D., Bicknell G.V.), 264, 691
- Magnetic moment distribution of magnetic cataclysmic variables -II. Effects due to period distribution (Wu K., Wickramasinghe D.T.), 265, 115
- Simulation of the X-ray light curves of intermediate polars (Norton A.J.), 265, 316
- A model for the optical continuum and Balmer emission lines in intermediate polars (Ferrario L., Wickramasinghe D.T.), 265, 605
- Wolf-Rayet**
- Modelling of X-ray emission from WR + O binary systems (Myasnikov A.V., Zhekov S.A.), 260, 221
- Reddening and age for 11 Galactic open clusters from integrated spectra (Santos J.F.C., Jr., Bica E.), 260, 915
- Mass-loaded astronomical flows - IV. A time-dependent hydrodynamic model of an observed clumpy wind-blown bubble, RCW 58 (Arthur S.J., Dyson J.E., Hartquist T.W.), 261, 425
- On the stability and pulsations of Wolf-Rayet stars (Glatzel W., Kirakidis M., Fricke K.J.), 262, L7
- The theoretical polarization from axisymmetric circumstellar envelopes with constant scattering optical depth (Fox G.K.), 264, 565
- The ionization structure of Cygnus X-3: a massive iron-depleted companion? (Terasawa N., Nakamura H.), 265, L1
- Interstellar medium (ISM), nebulae**
- Abundances**
- Refractory element depletion and the determination of abundances in H II regions (Henry R.B.C.), 261, 306
- The evolution of the 8-13 μ m spectrum of supernova 1987A (Roche P.F., Aitken D.K., Smith C.H.), 261, 522
- Models of the σ Per diffuse interstellar cloud (Heck E.L., Flower D.R., Le Bourlot J., Pineau des Forets G., Roueff E.), 262, 795
- Three-phase chemical models of dense interstellar clouds: gas, dust particle mantles and dust particle surfaces (Hasegawa T.I., Herbst E.), 263, 589
- Atoms**
- The presence of Fe VII and of low-ionization features in the UV spectra of central stars of planetary nebulae (Tweedy R.W.), 260, 855
- Neutral hydrogen observations of a *ROSAT* deep survey field at RA 10 h 07 m , Dec. 53° (Willacy K., Pedlar A., Berry D.), 261, 165
- The kinematics of face-on disc galaxies, and the nature of the Galactic H I layer (Merrifield M.R.), 261, 233
- The first measurement of the Lyman continuum emission from normal stars (Hoare M.G., Drew J.E., Denby M.), 262, L19
- Bubbles**
- The nature of the Napoleon's Hat nebula of SN 1987A (Wang L., Dyson J.E., Kahn F.D.), 261, 391
- Mass-loaded astronomical flows - IV. A time-dependent hydrodynamic model of an observed clumpy wind-blown bubble, RCW 58 (Arthur S.J., Dyson J.E., Hartquist T.W.), 261, 425
- On the evolution of supernova remnants - III. Off-centred supernova explosions in pre-existing wind-driven bubbles (Rózyczka M., Tenorio-Tagle G., Franco J., Bodenheimer P.), 261, 674
- Supernova remnants in plane-stratified media: predictions for H α -emitting regions (Arthur S.J., Falle S.A.E.G.), 261, 681
- The EUV source population and the local bubble (Warwick R.S., Barber C.R., Hodgkin S.T., Pye J.P.), 262, 289
- Clouds**
- Dust emission associated with DR21(OH) (Chandler C.J., Gear W.K., Chini R.), 260, 337
- Desorption processes in molecular clouds: quasi-steady-state chemistry (Willacy K., Williams D.A.), 260, 635
- New gas-grain chemical models of quiescent dense interstellar clouds: the effects of H₂ tunnelling reactions and cosmic ray induced desorption (Hasegawa T.I., Herbst E.), 261, 83
- The excitation and kinematics of DR21(OH) from observations of CS (Chandler C.J., Moore T.J.T., Mountain C.M., Yamashita T.), 261, 694
- Detection of 35 new 5 $_1$ -6 $_0$ A⁺-methanol masers towards *IRAS* sources (Schutte A.J., van der Walt D.J., Gaylard M.J., MacLeod G.C.), 261, 783

- The diffuse interstellar bands and the Galactic latitude (McIntosh A., Webster A.), **261**, L13
- Models of the σ Per diffuse interstellar cloud (Heck E.L., Flower D.R., Le Bourlot J., Pineau des Forets G., Roueff E.), **262**, 795
- A theory of the diffuse interstellar bands (Webster A.), **262**, 831
- Alternative routes to deuteration in dark clouds (Howe D.A., Millar T.J.), **262**, 868
- Sulphur-bearing molecules as tracers of shocks in interstellar clouds (Pineau des Forets G., Roueff E., Schilke P., Flower D.R.), **262**, 915
- IUE* and H I observations of gas components towards HD 174632 (Montgomery A.S., Bates B., Davies R.D., Kemp S.N.), **263**, 131
- A survey of H I in Orion – II. Large-scale features and the lack of evidence for rotation (Green D.A., Padman R.), **263**, 535
- Three-phase chemical models of dense interstellar clouds: gas, dust particle mantles and dust particle surfaces (Hasegawa T.I., Herbst E.), **263**, 589
- The gravitational stability of a compressed slab of gas (Lubow S.H., Pringle J.E.), **263**, 701
- Grain mantles in the Taurus dark cloud (Smith R.G., Sellgren K., Brooke T.Y.), **263**, 749
- Radiative transfer in a clumpy medium – I. Analytical Markov-process solution for an *N*-phase slab (Hobson M.P., Scheuer P.A.G.), **264**, 145
- Radiative transfer in a clumpy medium – II. The mega-grains approximation for two-phase models (Hobson M.P., Padman R.), **264**, 161
- The ion chemistry of H_3C^+ , $C_3O_2^+$ and C_3O^+ in dense interstellar clouds: an experimental study (Petrie S., Bettens R.P.A., Freeman C.G., McEwan M.J.), **264**, 862
- Ab initio* determination of the ratio of H_2 column density to $CO(J = 1 \rightarrow 0)$ integrated antenna temperature (Taylor S.D., Hartquist T.W., Williams D.A.), **264**, 929
- High-resolution millimetre and submillimetre continuum observations of M17SW – II. Identification of embedded sources associated with H_2O masers (Hobson M.P., Padman R., Scott P.F., Prestage R.M., Ward-Thompson D.), **264**, 1025
- Multicolour polarization and CO observations towards a dark filament in Musca (Arnal E.M., Morras R., Rizzo J.R.), **265**, 1
- Cosmic rays**
- Desorption processes in molecular clouds: quasi-steady-state chemistry (Willacy K., Williams D.A.), **260**, 635
- New gas–grain chemical models of quiescent dense interstellar clouds: the effects of H_2 tunnelling reactions and cosmic ray induced desorption (Hasegawa T.I., Herbst E.), **261**, 83
- Interstellar chemistry and the tight far-infrared–radio correlation (Bettens R.P.A., Brown R.D., Cragg D.M., Dickinson C.J., Godfrey P.D.), **263**, 93
- Cosmic ray acceleration at relativistic shock waves in the presence of oblique magnetic fields with finite-amplitude perturbations (Ostrowski M.), **264**, 248
- Did cosmic rays reionize the intergalactic medium? (Nath B.B., Biermann P.L.), **265**, 241
- Dust, extinction**
- The formation of H_2 on interstellar dust (Duley W.W., Williams D.A.), **260**, 37
- The ROSAT Wide Field Camera all-sky survey of extreme-ultraviolet sources – I. The Bright Source Catalogue (Pounds K.A. et al.), **260**, 77
- Hydrocarbons from shocked carbonaceous dust (Taylor S.D., Williams D.A.), **260**, 280
- Dust emission associated with DR21(OH) (Chandler C.J., Gear W.K., Chini R.), **260**, 337
- Infrared emission from hydrogenated amorphous carbon and amorphous carbon grains in the interstellar medium (Duley W.W., Jones A.P., Taylor S.D., Williams D.A.), **260**, 415
- On the origin of NH in diffuse interstellar clouds (Wagenblast R., Williams D.A., Millar T.J., Nejad L.A.M.), **260**, 420
- Desorption processes in molecular clouds: quasi-steady-state chemistry (Willacy K., Williams D.A.), **260**, 635
- A model for the circumstellar envelope of WX Ser (Griffin I.P.), **260**, 831
- Reddening and age for 11 Galactic open clusters from integrated spectra (Santos J.F.C., Jr, Bica E.), **260**, 915
- Dust radiation in active galactic nuclei – I. Spherical distribution (Loska Z., Szczepa R., Czerny B.), **261**, 63
- New gas–grain chemical models of quiescent dense interstellar clouds: the effects of H_2 tunnelling reactions and cosmic ray induced desorption (Hasegawa T.I., Herbst E.), **261**, 83
- Submillimetre observations of galaxies – I. First results (Clements D.L., Andreani P., Chase S.T.), **261**, 299
- The evolution of the 8–13 μm spectrum of supernova 1987A (Roche P.F., Aitken D.K., Smith C.H.), **261**, 522
- Spectroscopy of supernova 1987A at 1–4 μm – II. Days 377 to 1114 (Meikle W.P.S., Spyromilio J., Allen D.A., Varani G.-F., Cumming R.J.), **261**, 535
- Clumps in Supernova 1987A: the H α line (Hanuschik R.W., Spyromilio J., Stathakis R., Kimeswenger S., Gohermann J., Seidensticker K.J., Meurer G.), **261**, 909
- Cold dust around high-redshift quasars (Andreani P., La Franca F., Cristiani S.), **261**, L35
- Circumstellar dust emission in five Large Magellanic Cloud supergiants (Roche P.F., Aitken D.K., Smith C.H.), **262**, 301
- Far-infrared emission from dust in the Bok globule Barnard 335 (De Luca M., Blanco A., Orofino V.), **262**, 805
- Infrared spectroscopy of solid CO: the ρ Ophiuchi molecular cloud (Kerr T.H., Adamson A.J., Whittet D.C.B.), **262**, 1047
- The short-term disappearance of the broad-line region in NGC 5548: implications for the dusty torus model (Loska Z., Czerny B., Szczepa R.), **262**, L31
- On the nebular absorption and re-emission of the ultraviolet flux from HD 44179 (Webster A.), **262**, L59
- A test for dust in clusters of galaxies (Ferguson H.C.), **263**, 343
- Three-phase chemical models of dense interstellar clouds: gas, dust particle mantles and dust particle surfaces (Hasegawa T.I., Herbst E.), **263**, 589
- Thermal dust emission from quasars – I. Submillimetre spectral indices of radio-quiet quasars (Hughes D.H., Robson E.I., Dunlop J.S., Gear W.K.), **263**, 607
- Multigrain dust cloud models of starburst and Seyfert galaxies (Rowan-Robinson M., Efstathiou A.), **263**, 675
- Grain mantles in the Taurus dark cloud (Smith R.G., Sellgren K., Brooke T.Y.), **263**, 749
- Chemisorption of atomic H, C, N and O on a cluster-model graphite surface (Fromherz T., Mendoza C., Ruette F.), **263**, 851
- Optical evidence for dense, neutral globules in the Dumbbell planetary nebula (NGC 6853, M27) (Meaburn J., Lopez J.A.), **263**, 890
- Visual and infrared extinction from Cepheid observations (Laney C.D., Stobie R.S.), **263**, 921
- Gas-grain interactions and the E/A ratio of methyl cyanide in TMC-1 (Willacy K., Williams D.A., Minh Y.C.), **263**, L40
- The fullerene $C_{60}H_2$ and the interstellar extinction (Webster A.), **263**, L55
- Radiative transfer in a clumpy medium – I. Analytical Markov-process solution for an *N*-phase slab (Hobson M.P., Scheuer P.A.G.), **264**, 145
- Radiative transfer in a clumpy medium – II. The mega-grains approximation for two-phase models (Hobson M.P., Padman R.), **264**, 161
- Optical polarization in distant radio galaxies (Cimatti A., di Serego Alighieri S., Fosbury R.A.E., Salvati M., Taylor D.), **264**, 421
- Submillimetre cosmology (Blain A.W., Longair M.S.), **264**, 509
- The dust around the cometetary nebula Parsamian 13S (Smith R.G.), **264**, 587
- A search for cold dust in clusters of galaxies with cooling flows (Annis J., Jewitt D.), **264**, 593
- Extinction of olivine and pyroxene in the mid- and far-infrared (Koike C., Shiba H., Tuchiyama A.), **264**, 654
- A two-micron Galactic survey (Garzon F., Hammersley P.L., Mahoney T., Calbet X., Selby M.J., Hepburn I.D.), **264**, 773
- Contact binaries and SX Phe variables in the globular cluster NGC 4372 (Kaluzny J., Krzeminski W.), **264**, 785
- High-resolution millimetre and submillimetre continuum observations of M17SW – II. Identification of embedded sources associated with H_2O masers (Hobson M.P., Padman R., Scott P.F., Prestage R.M., Ward-Thompson D.), **264**, 1025
- High-velocity spectral features in V854 Centauri: evidence for dust formation? (Clayton G.C., Lawson W.A., Whitney B.A., Pollacco D.L.), **264**, L13

- Multicolour polarization and CO observations towards a dark filament in Musca (Arnal E.M., Morras R., Rizzo J.R.), **265**, 1
- Fundamental parameters for M4, the nearest globular cluster (Dixon R.I., Longmore A.J.), **265**, 395
- Large molecules, small radicals and the diffuse interstellar bands (Webster A.), **265**, 421
- The nature of the millimetre emission in NGC 4102, NGC 4418, NGC 6000 and Mrk 231 (Roche P.F., Chandler C.J.), **265**, 486
- Previously unresolved *IRAS* sources in the ρ Oph A cloud (Ward-Thompson D.), **265**, 493
- On the affinities of the diffuse interstellar band at 5778 Å (McIntosh A., Webster A.), **265**, 781
- Extreme-ultraviolet and low-energy X-ray scattering from interstellar dust (Cruise A.M.), **265**, 881
- Millimetre background radiation and galaxy formation (Blain A.W., Longair M.S.), **265**, L21
- Mid-infrared spectroscopy of Beta Pictoris: constraints on the dust grain size (Aitken D.K., Moore T.J.T., Roche P.F., Smith C.H., Wright C.M.), **265**, L41
- General**
- Radio variability in a complete sample of extragalactic sources at 151 MHz (Riley J.M.), **260**, 893
- IUE* and H I observations of gas components towards HD 174632 (Montgomery A.S., Bates B., Davies R.D., Kemp S.N.), **263**, 131
- H II regions**
- New detections of Ly α emission in young galaxies (Terlevich E., Diaz A.I., Terlevich R., Garcia Vargas M.L.), **260**, 3
- Optical and near-IR spectrophotometry of the galaxy NGC 3310 (Pastoriza M.G., Dottori H.A., Terlevich E., Terlevich R., Diaz A.I.), **260**, 177
- Refractory element depletion and the determination of abundances in H II regions (Henry R.B.C.), **261**, 306
- New detections of 6.6-GHz 5₁-6₀ A⁺-methanol emission towards southern hydroxyl masers (Gaylard M.J., MacLeod G.C.), **262**, 43
- G25.5 + 0.2: a new luminous blue variable in the Galaxy? (Subrahmanyam R., Ekers R.D., Wilson W.E., Goss W.M., Allen D.A.), **263**, 868
- Radio continuum observations of Sgr E (Gray A.D., Whiteoak J.B.Z., Cram L.E., Goss W.M.), **264**, 678
- Physical conditions in photodissociation regions: M17 northern bar (Chrysostomou A., Brand P.W.J.L., Burton M.G., Moorhouse A.), **265**, 329
- Individual: B335**
- Far-infrared emission from dust in the Bok globule Barnard 335 (De Luca M., Blanco A., Orofino V.), **262**, 805
- Individual: Cassiopeia A**
- A deep search for pulsed emission from Cassiopeia A (Woan G., Duffett-Smith P.J.), **260**, 693
- Individual: Crab nebula**
- The structure and motion of the Crab nebula jet (Fesen R.A., Stoker B.), **263**, 69
- Individual: DR21**
- The Cygnus X region - XIX. No supernova remnant in the W75 area (Wendker H.J., Higgs L.A., Landecker T.L., Ward-Thompson D.), **263**, 543
- Individual: DR21(OH)**
- Dust emission associated with DR21(OH) (Chandler C.J., Gear W.K., Chini R.), **260**, 337
- The excitation and kinematics of DR21(OH) from observations of CS (Chandler C.J., Moore T.J.T., Mountain C.M., Yamashita T.), **261**, 694
- Individual: G1.6-0.025**
- Population anti-inversion in the 2₀-3₋₁E transition of CH₃OH (Peng R.S., Whiteoak J.B.), **260**, 529
- Individual: G25.5 + 0.2**
- G25.5 + 0.2: a new luminous blue variable in the Galaxy? (Subrahmanyam R., Ekers R.D., Wilson W.E., Goss W.M., Allen D.A.), **263**, 868
- Individual: G 320.4-1.2**
- A faint polarized arc near the supernova remnant MSH 15-52 (G 320.4-1.2) (Milne D.K., Caswell J.L., Haynes R.F.), **264**, 853
- Individual: GGD 30**
- The illumination of the GGD 30 nebulosity (Foley N.B., Gledhill T.M., Scarrott S.M., Wolstencroft R.D.), **262**, 175
- Individual: Gum nebula**
- Enhanced star formation in the cometary globules of the Gum nebula (Bhatt H.C.), **262**, 812
- Individual: HH7-11**
- HCO⁺ emission in the HH7-11 region: the slowest component of the outflow? (Dent W.R.F., Cunningham C., Hayward R., Davies S.R., Wade D., Avery L.W., Mayer C.J., Masuda N.T.), **263**, L13
- Individual: HH34**
- Molecular observations of HH34: does NH₃ accurately trace dense molecular gas near young stars? (Davis C.J., Dent W.R.F.), **261**, 371
- Individual: HH137**
- Discovery of two Herbig-Haro objects in the small dark cloud D291.4-0.2 in Carina (Ogura K.), **262**, 735
- Individual: HH138**
- Discovery of two Herbig-Haro objects in the small dark cloud D291.4-0.2 in Carina (Ogura K.), **262**, 735
- Individual: Honeycomb nebula**
- The kinematics of the Honeycomb nebula in the vicinity of SN 1987A (Meaburn J., Wang L., Palmer J., Lopez J.A.), **263**, L6
- Individual: M17**
- Physical conditions in photodissociation regions: M17 northern bar (Chrysostomou A., Brand P.W.J.L., Burton M.G., Moorhouse A.), **265**, 329
- Individual: M17SW**
- High-resolution millimetre and submillimetre continuum observations of M17SW - II. Identification of embedded sources associated with H₂O masers (Hobson M.P., Padman R., Scott P.F., Prestage R.M., Ward-Thompson D.), **264**, 1025
- Individual: Mon R2**
- A survey of H I in Orion - II. Large-scale features and the lack of evidence for rotation (Green D.A., Padman R.), **263**, 535
- Individual: Musca**
- Multicolour polarization and CO observations towards a dark filament in Musca (Arnal E.M., Morras R., Rizzo J.R.), **265**, 1
- Individual: Napoleon's Hat nebula**
- The nature of the Napoleon's Hat nebula of SN 1987A (Wang L., Dyson J.E., Kahn F.D.), **261**, 391
- Individual: NGC 2327**
- The extended red emission and the fluorescence of C₆₀ (Webster A.), **264**, L1
- Individual: OMC**
- Broad-band spectroscopy with the James Clerk Maxwell Telescope using a polarizing Fourier transform spectrometer (Naylor D.A., Clark T.A., Davis G.R., Duncan W.D., Tompkins G.J.), **260**, 875
- Individual: ρ Oph**
- Infrared spectroscopy of solid CO: the ρ Ophiuchi molecular cloud (Kerr T.H., Adamson A.J., Whittet D.C.B.), **262**, 1047
- Individual: ρ Oph A cloud**
- Previously unresolved *IRAS* sources in the ρ Oph A cloud (Ward-Thompson D.), **265**, 493
- Individual: Orion nebula**
- High-speed, highly ionized jets, knots and loops in the Trapezium cluster of the Orion nebula (M42, NGC 1976) (Meaburn J., Massey R.M., Raga A.C., Clayton C.A.), **260**, 625
- Extensive, high-speed gas around the Trapezium cluster of the Orion nebula (M42, NGC 1976) (Massey R.M., Meaburn J.), **262**, L48
- A survey of H I in Orion - II. Large-scale features and the lack of evidence for rotation (Green D.A., Padman R.), **263**, 535
- Individual: Parsamian 13S**
- The dust around the cometary nebula Parsamian 13S (Smith R.G.), **264**, 587

- Individual: Par 22**
Imaging polarimetry of the bipolar nebula Parsamyan 22 (Scarrott S.M., Draper P.W., Tadhunter C.N.), **260**, 171
- Individual: RCW 58**
Mass-loaded astronomical flows – IV. A time-dependent hydrodynamic model of an observed clumpy wind-blown bubble, RCW 58 (Arthur S.J., Dyson J.E., Hartquist T.W.), **261**, 425
- Individual: RNO 91**
The nature of the optical nebulosity surrounding the star RNO 91 in the L43 dark cloud (Scarrott S.M., Draper P.W., Tadhunter C.N.), **262**, 306
- Individual: S106**
The molecular environment of S106 IR (Richer J.S., Padman R., Ward-Thompson D., Hills R.E., Harris A.I.), **262**, 839
- Individual: Sh-2 106**
Constraints on the outflow in S106IR from He I 2.058- μ m absorption-line and H I emission-line profiles (Drew J.E., Bunn J.C., Hoare M.G.), **265**, 12
- Individual: TMC-1**
Desorption processes in molecular clouds: quasi-steady-state chemistry (Willacy K., Williams D.A.), **260**, 635
Gas-grain interactions and the E/A ratio of methyl cyanide in TMC-1 (Willacy K., Williams D.A., Minh Y.C.), **263**, L40
- Individual: W44**
A detailed X-ray and radio study of the supernova remnant W44 (Jones L.R., Smith A., Angellini L.), **265**, 631
- Individual: W75**
The Cygnus X region – XIX. No supernova remnant in the W75 area (Wendker H.J., Higgs L.A., Landecker T.L., Ward-Thompson D.), **263**, 543
- Jets and outflows**
Ballistic stellar jets from sources with a time-dependent ejection direction (Raga A.C., Cantó J., Biro S.), **260**, 163
High-speed, highly ionized jets, knots and loops in the Trapezium cluster of the Orion nebula (M42, NGC 1976) (Meaburn J., Massey R.M., Raga A.C., Clayton C.A.), **260**, 625
Molecular observations of HH34: does NH₃ accurately trace dense molecular gas near young stars? (Davis C.J., Dent W.R.F.), **261**, 371
The structure of knots in variable stellar jets – I. Symmetric knots (Falle S.A.E.G., Raga A.C.), **261**, 573
Circinus X-1: a runaway binary with curved radio jets (Stewart R.T., Caswell J.L., Haynes R.F., Nelson G.J.), **261**, 593
Studies in mid-infrared spectropolarimetry – I. Magnetic fields, discs and flows in star formation regions (Aitken D.K., Wright C.M., Smith C.H., Roche P.F.), **262**, 456
Discovery of two Herbig-Haro objects in the small dark cloud D291.4–0.2 in Carina (Ogura K.), **262**, 735
HCO⁺ emission in the HH7–11 region: the slowest component of the outflow? (Dent W.R.F., Cunningham C., Hayward R., Davies S.R., Wade D., Avery L.W., Mayer C.J., Masuda N.T.), **262**, L13
Extensive, high-speed gas around the Trapezium cluster of the Orion nebula (M42, NGC 1976) (Massey R.M., Meaburn J.), **262**, L48
The structure and motion of the Crab nebula jet (Fesen R.A., Stoker B.), **263**, 69
G25.5 + 0.2: a new luminous blue variable in the Galaxy? (Subrahmanyam R., Ekers R.D., Wilson W.E., Goss W.M., Allen D.A.), **263**, 868
The dust around the cometary nebula Parsamian 13S (Smith R.G.), **264**, 587
Machine-gun jets from time-dependent sources (Raga A.C., Biro S.), **264**, 758
Constraints on the outflow in S106IR from He I 2.058- μ m absorption-line and H I emission-line profiles (Drew J.E., Bunn J.C., Hoare M.G.), **265**, 12
H α position determination of the binary Circinus X-1 (Duncan A.R., Stewart R.T., Haynes R.F.), **265**, 157
Excited hydrogen and the formation of molecular hydrogen via associative ionization – I. Physical processes and outflows from young stellar objects (Rawlings J.M.C., Drew J.E., Barlow M.J.), **265**, 968
- Kinematics and dynamics**
The excitation and kinematics of DR21(OH) from observations of CS (Chandler C.J., Moore T.J.T., Mountain C.M., Yamashita T.), **261**, 694
A power spectrum analysis of the angular scale of Galactic neutral hydrogen emission towards l=140°, b=0° (Green D.A.), **262**, 327
IUE and H I observations of gas components towards HD 174632 (Montgomery A.S., Bates B., Davies R.D., Kemp S.N.), **263**, 131
The kinematics of the Honeycomb nebula in the vicinity of SN 1987A (Meaburn J., Wang L., Palmer J., Lopez J.A.), **263**, L6
- Magnetic fields**
Studies in mid-infrared spectropolarimetry – I. Magnetic fields, discs and flows in star formation regions (Aitken D.K., Wright C.M., Smith C.H., Roche P.F.), **262**, 456
Sulphur-bearing molecules as tracers of shocks in interstellar clouds (Pineau des Forêts G., Roueff E., Schilke P., Flower D.R.), **262**, 915
The random magnetic field in the Galaxy (Ohno H., Shibata S.), **262**, 953
Large-scale non-linear limiting of galactic $a^2\omega$ -dynamos (Nozakura T.), **262**, 970
Magnetic reconnection in the disc and halo (Kahn F.D., Brett L.), **263**, 37
Interstellar chemistry and the tight far-infrared–radio correlation (Bettens R.P.A., Brown R.D., Cragg D.M., Dickinson C.J., Godfrey P.D.), **263**, 93
Global magnetic patterns in the Milky Way and the Andromeda nebula (Poezd A., Shukurov A., Sokoloff D.), **264**, 285
Multicolour polarization and CO observations towards a dark filament in Musca (Arnal E.M., Morras R., Rizzo J.R.), **265**, 1
- Molecules**
The formation of H₂ on interstellar dust (Duley W.W., Williams D.A.), **260**, 37
Hydrocarbons from shocked carbonaceous dust (Taylor S.D., Williams D.A.), **260**, 280
Infrared emission from hydrogenated amorphous carbon and amorphous carbon grains in the interstellar medium (Duley W.W., Jones A.P., Taylor S.D., Williams D.A.), **260**, 415
On the origin of NH in diffuse interstellar clouds (Wagenblast R., Williams D.A., Millar T.J., Nejad L.A.M.), **260**, 420
Methanol masers at 12 GHz (Caswell J.L., Gardner F.F., Norris R.P., Wellington K.J., McCutcheon W.H., Peng R.S.), **260**, 875
Population anti-inversion in the 2₀→3₋₁E transition of CH₃OH (Peng R.S., Whiteoak J.B.), **260**, 529
Desorption processes in molecular clouds: quasi-steady-state chemistry (Willacy K., Williams D.A.), **260**, 635
Broad-band spectroscopy with the James Clerk Maxwell Telescope using a polarizing Fourier transform spectrometer (Naylor D.A., Clark T.A., Davis G.R., Duncan W.D., Tompkins G.J.), **260**, 875
New gas-grain chemical models of quiescent dense interstellar clouds: the effects of H₂ tunnelling reactions and cosmic ray induced desorption (Hasegawa T.I., Herbst E.), **261**, 83
Molecular observations of HH34: does NH₃ accurately trace dense molecular gas near young stars? (Davis C.J., Dent W.R.F.), **261**, 371
The excitation and kinematics of DR21(OH) from observations of CS (Chandler C.J., Moore T.J.T., Mountain C.M., Yamashita T.), **261**, 694
Detection of 35 new 5₁–6₀ A⁺-methanol masers towards *IRAS* sources (Schutte A.J., van der Walt D.J., Gaylard M.J., MacLeod G.C.), **261**, 783
The diffuse interstellar bands and the Galactic latitude (McIntosh A., Webster A.), **261**, L13
Long-term variability in 12.2-GHz 2₀–3₋₁ E-methanol masers and new detections towards 6.6-GHz 5₁–6₀ A⁺-methanol masers (MacLeod G.C., Gaylard M.J., Kemball A.J.), **262**, 343
Models of the α Per diffuse interstellar cloud (Heck E.L., Flower D.R., Le Bourlot J., Pineau des Forêts G., Roueff E.), **262**, 795
A theory of the diffuse interstellar bands (Webster A.), **262**, 831
The molecular environment of S106 IR (Richer J.S., Padman R., Ward-Thompson D., Hills R.E., Harris A.I.), **262**, 839
Alternative routes to deuteration in dark clouds (Howe D.A., Millar T.J.), **262**, 868
Sulphur-bearing molecules as tracers of shocks in interstellar clouds (Pineau des Forêts G., Roueff E., Schilke P., Flower D.R.), **262**, 915

- Infrared spectroscopy of solid CO: the ρ Ophiuchi molecular cloud (Kerr T.H., Adamson A.J., Whittet D.C.B.), 262, 1047
- HCO^+ emission in the HH7–11 region: the slowest component of the outflow? (Dent W.R.F., Cunningham C., Hayward R., Davies S.R., Wade D., Avery L.W., Mayer C.J., Masuda N.T.), 262, L13
- Formaldehyde in oxygen-rich circumstellar envelopes (Millar T.J., Olofsson H.), 262, L55
- On the nebular absorption and re-emission of the ultraviolet flux from HD 44179 (Webster A.), 262, L59
- Interstellar chemistry and the tight far-infrared–radio correlation (Bettens R.P.A., Brown R.D., Cragg D.M., Dickinson C.J., Godfrey P.D.), 263, 93
- Vibrational excitation of products of dissociative recombination (Bates D.R.), 263, 369
- On the carriers of the diffuse interstellar bands (Webster A.), 263, 385
- Three-phase chemical models of dense interstellar clouds: gas, dust particle mantles and dust particle surfaces (Hasegawa T.I., Herbst E.), 263, 589
- Chemisorption of atomic H, C, N and O on a cluster-model graphite surface (Fromherz T., Mendoza C., Ruette F.), 263, 851
- Optical emission bands in the spectrum of the R CrB star V854 Cen at minimum (Rao N.K., Lambert D.L.), 263, L27
- Gas-grain interactions and the E/A ratio of methyl cyanide in TMC-1 (Willacy K., Williams D.A., Minh Y.C.), 263, L40
- The fullerene $C_{60}\text{H}_2$ and the interstellar extinction (Webster A.), 263, L55
- The vibrations of $C_{60}\text{H}_{60}$ and the unidentified infrared emission (Webster A.), 264, 121
- Line strengths of methanol by the internal axis method (Cragg D.M., Mekhtiev M.A., Bettens R.P.A., Godfrey P.D., Brown R.D.), 264, 769
- The ion chemistry of $\text{H}_n\text{C}_3\text{O}^+$, C_3O_2^+ and C_3O^+ in dense interstellar clouds: an experimental study (Petrie S., Bettens R.P.A., Freeman C.G., McEwan M.J.), 264, 862
- Ab initio* determination of the ratio of H_2 column density to $\text{CO}(J = 1 \rightarrow 0)$ integrated antenna temperature (Taylor S.D., Hartquist T.W., Williams D.A.), 264, 929
- The extended red emission and the fluorescence of C_{60} (Webster A.), 264, L1
- Multicolour polarization and CO observations towards a dark filament in Musca (Arnal E.M., Morras R., Rizzo J.R.), 265, 1
- Physical conditions in photodissociation regions: M17 northern bar (Chrysostomou A., Brand P.W.J.L., Burton M.G., Moorhouse A.), 265, 329
- Large molecules, small radicals and the diffuse interstellar bands (Webster A.), 265, 421
- On the affinities of the diffuse interstellar band at 5778 Å (McIntosh A., Webster A.), 265, 781
- Excited hydrogen and the formation of molecular hydrogen via associative ionization – I. Physical processes and outflows from young stellar objects (Rawlings J.M.C., Drew J.E., Barlow M.J.), 265, 968
- Planetary nebulae: general**
- Mass-loss rates and C/He ratios in the winds of the WC central stars of planetary nebulae (de Freitas Pacheco J.A., Costa R.D.D., de Araújo F.X., Petri D.J.), 260, 401
- The presence of Fe VII and of low-ionization features in the UV spectra of central stars of planetary nebulae (Tweedy R.W.), 260, 855
- The features of chemical abundances in Galactic planetary nebulae (Annuel P.R.), 261, 263
- Observations of the Bowen fluorescence mechanism and charge transfer in planetary nebulae – I (Liu X., Danziger J.), 261, 465
- Observations of the Bowen fluorescence mechanism and charge transfer in planetary nebulae – II (Liu X., Danziger J., Murdin P.), 262, 699
- Electron temperature determination from nebular continuum emission in planetary nebulae and the importance of temperature fluctuations (Liu X., Danziger J.), 263, 256
- Heavy mass loss from the symbiotic star AS 304 (Munari U., Buson L.M.), 263, 267
- Planetary nebulae: individual: Abell 63**
- New light on UU Sagittae (Pollacco D.L., Bell S.A.), 262, 377
- Planetary nebulae: individual: Hubble 12**
- Pure fluorescent H₂ emission from Hubble 12 (Ramsay S.K., Chrysostomou A., Geballe T.R., Brand P.W.J.L., Mountain M.), 263, 695
- Planetary nebulae: individual: IC 418**
- Pulsating post-asymptotic giant branch stars (Gautschy A.), 265, 340
- Planetary nebulae: individual: M2–9**
- H α imaging polarimetry of the protoplanetary nebula M2–9 (Scarrott R.M.J., Scarrott S.M., Wolstencroft R.D.), 264, 740
- Planetary nebulae: individual: NGC 6853**
- Optical evidence for dense, neutral globules in the Dumbbell planetary nebula (NGC 6853, M27) (Meaburn J., Lopez J.A.), 263, 890
- Planetary nebulae: individual: NGC 7293**
- Mass-loaded astronomical flows – V. Tails: intermediate-scale structures in flowing clumpy media (Dyson J.E., Hartquist T.W., Biro S.), 261, 430
- Reflection nebulae**
- Imaging polarimetry of the bipolar nebula Parsamyan 22 (Scarrott S.M., Draper P.W., Tadhunter C.N.), 260, 171
- The illumination of the GGD 30 nebulosity (Foley N.B., Gledhill T.M., Scarrott S.M., Wolstencroft R.D.), 262, 175
- The nature of the optical nebulosity surrounding the star RNO 91 in the L43 dark cloud (Scarrott S.M., Draper P.W., Tadhunter C.N.), 262, 306
- H α imaging polarimetry of the protoplanetary nebula M2–9 (Scarrott R.M.J., Scarrott S.M., Wolstencroft R.D.), 264, 740
- The extended red emission and the fluorescence of C_{60} (Webster A.), 264, L1
- Structure**
- The kinematics of face-on disc galaxies, and the nature of the Galactic H I layer (Merrifield M.R.), 261, 233
- Mass-loaded astronomical flows – V. Tails: intermediate-scale structures in flowing clumpy media (Dyson J.E., Hartquist T.W., Biro S.), 261, 430
- On the evolution of supernova remnants – III. Off-centred supernova explosions in pre-existing wind-driven bubbles (Różyczka M., Tenorio-Tagle G., Franco J., Bodenheimer P.), 261, 674
- Supernova remnants in plane-stratified media: predictions for H α -emitting regions (Arthur S.J., Falle S.A.E.G.), 261, 681
- The EUV source population and the local bubble (Warwick R.S., Barber C.R., Hodgkin S.T., Pye J.P.), 262, 289
- A power spectrum analysis of the angular scale of Galactic neutral hydrogen emission towards $l=140^\circ$, $b=0^\circ$ (Green D.A.), 262, 327
- IUE and H I observations of gas components towards HD 174632 (Montgomery A.S., Bates B., Davies R.D., Kemp S.N.), 263, 131
- A survey of H I in Orion – II. Large-scale features and the lack of evidence for rotation (Green D.A., Padman R.), 263, 535
- Pulsar velocities and the scaleheight of scattering in the Galaxy (Harrison P.A., Lyne A.G.), 265, 778
- Supernova remnants**
- Radio polarization in the supernova remnant Puppis A (G 260.4–3.4) (Milne D.K., Stewart R.T., Haynes R.F.), 261, 366
- On the evolution of supernova remnants – III. Off-centred supernova explosions in pre-existing wind-driven bubbles (Różyczka M., Tenorio-Tagle G., Franco J., Bodenheimer P.), 261, 674
- Supernova remnants in plane-stratified media: predictions for H α -emitting regions (Arthur S.J., Falle S.A.E.G.), 261, 681
- Clumps in Supernova 1987A: the H α line (Hanuschik R.W., Spyromilio J., Stathakis R., Kimeswenger S., Goerhmann J., Seidensticker K.J., Meurer G.), 261, 909
- The structure and motion of the Crab nebula jet (Fesen R.A., Stoker B.), 263, 69
- The Cygnus X region – XIX. No supernova remnant in the W75 area (Wendker H.J., Higgs L.A., Landecker T.L., Ward-Thompson D.), 263, 543
- The kinematics of the Honeycomb nebula in the vicinity of SN 1987A (Meaburn J., Wang L., Palmer J., Lopez J.A.), 263, L6
- A faint polarized arc near the supernova remnant MSH 15–52 (G 320.4–1.2) (Milne D.K., Caswell J.L., Haynes R.F.), 264, 853
- Observations of type II plateau supernovae: SNe 1988A, 1988H and 1989C (Turatto M., Cappellaro E., Benetti S., Danziger J.), 265, 471

A detailed X-ray and radio study of the supernova remnant W44
(Jones L.R., Smith A., Angellini L.), 265, 631

The Galaxy

Abundances

The features of chemical abundances in Galactic planetary nebulae
(Amnuel P.R.), 261, 263

Centre

Radio continuum observations of Sgr E (Gray A.D., Whiteoak
J.B.Z., Cram L.E., Goss W.M.), 264, 678

Evolution

Disc-shocking and the mass function of Galactic globular clusters
(Capaccioli M., Piotto G., Stiavelli M.), 261, 819
A model for the formation, evolution and structure of the solar
cylinder (Sommer-Larsen J., Antonuccio-Delogu V.), 262, 350

Formation

A model for the formation, evolution and structure of the solar
cylinder (Sommer-Larsen J., Antonuccio-Delogu V.), 262, 350
The Oosterhoff effect (van den Bergh S.), 262, 588

Globular clusters: general

A study of Lagrangian radii oscillations and core-wandering using
N-body simulations (Sweatman W.L.), 261, 497

Multivariate analysis of globular cluster systems in early-type
galaxies (Santiago B.X., Djorgovski S.), 261, 753

Disc-shocking and the mass function of Galactic globular clusters
(Capaccioli M., Piotto G., Stiavelli M.), 261, 819

The Oosterhoff effect (van den Bergh S.), 262, 588

Addendum: Anisotropic spheres in general relativity (Bondi Sir
Hermann), 262, 1088

Globular cluster systems formed in galaxy mergers (Zepf S.E.,
Ashman K.M.), 264, 611

N-body simulations of star-disc captures in globular clusters
(Murray S.D., Clarke C.J.), 265, 169

Evolution of globular cluster pulsars: predictions (Michel F.C.),
265, 449

Biased globular cluster formation (West M.J.), 265, 755

NGC 6397: a case study in the resolution of post-collapse globular
cluster cores (Drukier G.A.), 265, 773

Globular clusters: individual: 47 Tuc

Evolution of globular cluster pulsars: predictions (Michel F.C.),
265, 449

Globular clusters: individual: M3

The absolute proper motion and Galactic orbit of M3 (Scholz R.-
D., Odenkirchen M., Irwin M.J.), 264, 579

Globular clusters: individual: M4

Fundamental parameters for M4, the nearest globular cluster
(Dixon R.I., Longmore A.J.), 265, 395

Globular clusters: individual: M13

The chemical inhomogeneity of M13 (Folgheraiter E.L., Penny
A.J., Griffiths W.K.), 264, 991

Globular clusters: individual: M15

Evolution of globular cluster pulsars: predictions (Michel F.C.),
265, 449

Globular clusters: individual: NGC 1261

On the giant, horizontal and asymptotic branches of Galactic
globular clusters - V. CCD photometry of NGC 1261 (Ferraro
F.R., Clementini G., Fusi Pecci F., Vitiello E., Buonanno R.), 264,
273

Globular clusters: individual: NGC 4372

Contact binaries and SX Phe variables in the globular cluster NGC
4372 (Kaluzny J., Krzeminski W.), 264, 785

Globular clusters: individual: NGC 6397

NGC 6397: a case study in the resolution of post-collapse globular
cluster cores (Drukier G.A.), 265, 773

Globular clusters: individual: NGC 6441

Detection of a 5.7-h period in the globular cluster X-ray source 4U
1746-371 (Sansom A.E., Dotani T., Asai K., Lehto H.J.), 262, 429

Globular clusters: individual: NGC 6539

PSR B1802-07: a globular cluster pulsar in an eccentric binary
system (D'Amico N., Bailes M., Lyne A.G., Manchester R.N.,
Johnston S., Fruchter A.S., Goss W.M.), 260, L7

Globular clusters: individual: NGC 6624

Ginga observations of X1820-303 in the globular cluster NGC 6624
(Ercan E.N., Cruise A.M., Kellett B.J., Sayili K.), 262, 511

Halo

Magnetic reconnection in the disc and halo (Kahn F.D., Brett L.),
263, 37

The Magellanic Clouds as the source of gamma-ray bursters (Fabian
A.C., Podsiadlowski P.), 263, 49

Kinematics and dynamics

The kinematics of face-on disc galaxies, and the nature of the
Galactic H I layer (Merrifield M.R.), 261, 233

The origin of anisotropic velocity dispersion of particles in a disc
potential (Ida S., Kokubo E., Makino J.), 263, 875

Simple discs with flat rotation curves (Evans N.W., Collett J.L.),
264, 353

The absolute proper motion and Galactic orbit of M3 (Scholz R.-
D., Odenkirchen M., Irwin M.J.), 264, 579

The least action principle and the spin of galaxies in the Local
Group (Dunn A.M., Laflamme R.), 264, 865

Open clusters and associations: general

Reddening and age for 11 Galactic open clusters from integrated
spectra (Santos J.F.C., Jr., Bica E.), 260, 915

The kinematics of active late-type stars observed by the ROSAT
Wide Field Camera (Jeffries R.D., Jewell S.J.), 264, 106

A new method for estimating the distance of young open clusters
(Hendry M.A., O'Dell M.A., Collier Cameron A.), 265, 983

Open clusters and associations: individual: Be 33

Photometric study of the intermediate-age open cluster Be 33
(Mazur B., Kaluzny J., Krzeminski W.), 265, 405

Open clusters and associations: individual: Be 39

Discovery of 12 short-period eclipsing binaries in the old open
cluster Berkeley 39 (Kaluzny J., Mazur B., Krzeminski W.), 262, 49

Open clusters and associations: individual: Car OB2

Strömgren and H β photometry of OB associations and open clusters
- II. Tr 16 and Car OB2 (Kaltcheva N.T., Georgiev L.N.), 261, 847

Open clusters and associations: individual: Hyades

Low-mass stars in the Hyades (Reid N.), 265, 785

Open clusters and associations: individual: NGC 4755

Observation of Beta Cephei candidates in the Jewel Box (Koen C.),
264, 165

Open clusters and associations: individual: NGC 6791

Discovery of 17 variable stars in the old open cluster NGC 6791
(Kaluzny J., Ruciński S.M.), 265, 34

Open clusters and associations: individual: α Persei

Rotation periods of selected members of the α Persei cluster (O'Dell
M.A., Collier Cameron A.), 262, 521

Open clusters and associations: individual: Pleiades

RIJK photometry of low-mass stars and brown dwarfs in the
Pleiades (Steele I.A., Jameson R.F., Hambly N.C.), 263, 647

Open clusters and associations: individual: Tr 16

Strömgren and H β photometry of OB associations and open clusters
- II. Tr 16 and Car OB2 (Kaltcheva N.T., Georgiev L.N.), 261, 847

Solar neighbourhood

A model for the formation, evolution and structure of the solar
cylinder (Sommer-Larsen J., Antonuccio-Delogu V.), 262, 350

The origin of anisotropic velocity dispersion of particles in a disc
potential (Ida S., Kokubo E., Makino J.), 263, 875

Can a local bulge be differentiated? (Hernández-Pajares, M.), 264,
1

The kinematics of active late-type stars observed by the ROSAT
Wide Field Camera (Jeffries R.D., Jewell S.J.), 264, 106

Stellar content

The distribution of low-mass stars in the Galactic disc (Kroupa P.,
Tout C.A., Gilmore G.), 262, 545

How young are the low-mass X-ray binaries? Conclusions from a flux-limited sample (Naylor T., Podsiadlowski Ph.), **262**, 929
Can a local bulge be differentiated? (Hernández-Pajares, M.), **264**, 1

Structure

New detections of 6.6-GHz S_{1-6_0} A⁺-methanol emission towards southern hydroxyl masers (Gaylor M.J., MacLeod G.C.), **262**, 43
A model for the formation, evolution and structure of the solar cylinder (Sommer-Larsen J., Antonuccio-Delogu V.), **262**, 350
How young are the low-mass X-ray binaries? Conclusions from a flux-limited sample (Naylor T., Podsiadlowski Ph.), **262**, 929
Can a local bulge be differentiated? (Hernández-Pajares, M.), **264**, 1
Global magnetic patterns in the Milky Way and the Andromeda nebula (Pozzetti A., Shukurov A., Sokoloff D.), **264**, 285
A two-micron Galactic survey (Garzón F., Hammersley P.L., Mahoney T., Calbet X., Selby M.J., Hepburn I.D.), **264**, 773

Galaxies

Abundances

New detections of Ly α emission in young galaxies (Terlevich E., Díaz A.I., Terlevich R., García Vargas M.L.), **260**, 3
Optical and near-IR spectrophotometry of the galaxy NGC 3310 (Pastoriza M.G., Dottori H.A., Terlevich E., Terlevich R., Díaz A.I.), **260**, 177
Refractory element depletion and the determination of abundances in H II regions (Henry R.B.C.), **261**, 306
The co-existence of spiral structure and abundance gradients (Edmunds M.G., Roy J.-R.), **261**, L17
Abundances in the starburst galaxy II Zw 40 (Walsh J.R., Roy J.-R.), **262**, 27
Line-strength gradients in elliptical galaxies (Davies R.L., Sadler E.M., Peletier R.F.), **262**, 650
Thresholds and the chemical evolution of galactic discs (Chamcham K., Pitts E., Taylor R.J.), **263**, 967
The nitrogen-to-oxygen ratio in galaxies, and its implications for the origin of nitrogen (Vila-Costas M.B., Edmunds M.G.), **265**, 199
Metallicity gradients in early-type galaxies (Carollo C.M., Danziger I.J., Buson L.), **265**, 553
The fundamental relations of elliptical galaxies (Guzmán R., Lucey J.R., Bowler R.G.), **265**, 731

Active

Optical, infrared, radio and polarization imaging of the high-redshift galaxy IRAS F10214 + 4724 (Lawrence A., Rowan-Robinson M., Oliver S., Taylor A., McMahon R.G., Broadhurst T., Scarrott S.M., Roche C.D., Draper P.W., Ellis R.S., Tadhunter C., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Efstathiou G.P., Saunders W.S.), **260**, 28
The broad-line regions of active galaxies (Cassidy I., Raine D.J.), **260**, 385
Accretion discs in active galactic nuclei: tell-tale signs of the nuclear star cluster? (Perry J.J., Williams R.), **260**, 437
Structure of NGC 5128 (Centaurus A) at submillimetre wavelengths (Hawarden T.G., Sandell G., Matthews H.E., Friberg P., Watt G.D., Smith P.A.), **260**, 844
Radio variability in a complete sample of extragalactic sources at 151 MHz (Riley J.M.), **260**, 893
Physical conditions in the intergalactic medium (Subrahmanyam R., Saripalli L.), **260**, 908
Spectropolarimetry of the ultraluminous infrared galaxy IRAS 110548–1131 (Young S., Hough J.H., Bailey J.A., Axon D.J., Ward M.J.), **260**, L1
A ROSAT observation of the powerful distant radio galaxy 3C 356 (Crawford C.S., Fabian A.C.), **260**, L15
Radio-loud AGN and the extragalactic gamma-ray background (Padovani P., Ghisellini G., Fabian A.C., Celotti A.), **260**, L21
Dust radiation in active galactic nuclei – I. Spherical distribution (Liska Z., Szczepański R., Czerny B.), **261**, 63
The effects of photoionization on X-ray reflection spectra in active galactic nuclei (Ross R.R., Fabian A.C.), **261**, 74
AGN X-ray light curves – shot noise or low-dimensional attractor? (Lehto H.J., Czerny B., McHardy I.M.), **261**, 125

The steady-state structure of relativistic magnetic jets (Dubal M.R., Pantano O.), **261**, 203
X-ray polarization in the two-phase model for AGN and X-ray binaries (Haardt F., Matt G.), **261**, 346
B0218 + 35.7: a gravitationally lensed system with the smallest separation (Patnaik A.R., Browne I.W.A., King L.J., Muxlow T.W.B., Walsh D., Wilkinson P.N.), **261**, 435
Erratum: VLBI, MERLIN and VLA observations of the blazar 1156 + 295: a bending relativistic jet (McHardy I.M., Marscher A.P., Gear W.K., Muxlow T., Lehto H.J., Abraham R.G.), **261**, 464
The ultraviolet-to-radio continuum of the ultraluminous galaxy IRAS F10214 + 4724 (Rowan-Robinson M., Efstathiou A., Lawrence A., Oliver S., Taylor A., Broadhurst T.J., McMahon R.G., Benn C.R., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Saunders W.S., Clements D.L., Ellis R.S., Robson I.), **261**, 513
The recognition of BL Lac objects and their statistical properties (Browne I.W.A., Marchá M.J.M.), **261**, 795
The soft X-ray excesses of high-luminosity AGN (Saxton R.D., Turner M.J.L., Williams O.R., Stewart G.C., Ohashi T., Kii T.), **262**, 63
Black hole remnants: soft X-ray flares from tidally disrupted stars (Sembay S., West R.G.), **262**, 141
Iron K α lines from X-ray photoionized accretion discs (Matt G., Fabian A.C., Ross R.R.), **262**, 179
Young ellipticals at high redshift (Terlevich R.J., Boyle B.J.), **262**, 491
Corrigendum: On the origin of the radio emission in *IRAS* galaxies with high and ultrahigh luminosity: the starburst–AGN controversy (Colina L., Pérez-Olea D.), **262**, 543
Anisotropic induced Compton scattering – constraints on models of active galactic nuclei (Coppi P., Blandford R.D., Rees M.J.), **262**, 603
A deep *ROSAT* survey – II. Observations of the isotropy of the 1–2 keV X-ray background (Georgantopoulos I., Stewart G.C., Shanks T., Griffiths R.E., Boyle B.J.), **262**, 619
Evidence for systematic evolution in the properties of galaxies in distant clusters (Aragón-Salamanca A., Ellis R.S., Couch W.J., Carter D.), **262**, 764
Further constraints on the warm absorber in MR2251–17.8 from *Ginga* and *EXOSAT* observations (Mineo T., Stewart G.C.), **262**, 817
Optical spectroscopy of southern radio galaxies (Simpson C., Clements D.L., Rawlings S., Ward M.), **262**, 889
A search for intra-night optical variability in radio-quiet QSOs (Gopal-Krishna, Sagar R., Wiita P.J.), **262**, 963
The optical polarization of the low-redshift radio galaxies 3CR 33, 305, 321 and 459 (Draper P.W., Scarrott S.M., Tadhunter C.N.), **262**, 1029
Extended H α emission from IRAS F10214 + 4724: starburst or active galactic nucleus? (Clements D.L., van der Werf P.P., Krabbe A., Blietz M., Genzel R., Ward M.J.), **262**, L23
Evidence against the unified scheme for powerful radio galaxies and quasars (Singal A.K.), **262**, L27
The extended nebulosity in the radio galaxy 3C 227 (Prieto M.A., Walsh J.R., Fosbury R.A.E., di Serego Alighieri S.), **263**, 10
Spectroscopy of faint radio sources: the nature of the sub-mJy radio-source population (Benn C.R., Rowan-Robinson M., McMahon R.G., Broadhurst T.J., Lawrence A.), **263**, 98
Cosmic evolution and luminosity dependence of the physical sizes of powerful radio galaxies and quasars (Singal A.K.), **263**, 139
Response functions as diagnostics of the broad-line region in active galactic nuclei (Goad M.R., O'Brien P.T., Gondhalekar P.M.), **263**, 149
The radio and optical properties of the $z < 0.5$ BQS quasars (Miller P., Rawlings S., Saunders R.), **263**, 425
CCD imaging of Seyfert galaxies: deconvolution of the nuclear and stellar components (Kotilainen J.K., Ward M.J., Williger G.M.), **263**, 655
A complete sample of sources in the North Ecliptic Cap, selected at 38 MHz – II. CCD observations and their implications (Lacy M., Hill G.J., Kaiser M.-E., Rawlings S.), **263**, 707
Evidence for an obscured broad-line region in the early-type radio galaxy IC 5063 (Inglis M.D., Brindle C., Hough J.H., Young S., Axon D.J., Bailey J.A., Ward M.J.), **263**, 895

- Luminosity dependence of optical activity and alignments in radio galaxies (Dunlop J.S., Peacock J.A.), **263**, 936
- Optical spectroscopy of a complete sample of southern 2-Jy radio sources (Tadhunter C.N., Morganti R., di Serego Alighieri S., Fosbury R.A.E., Danziger I.J.), **263**, 999
- The radio structures of southern 2-Jy radio sources (Morganti R., Killeen N.E.B., Tadhunter C.N.), **263**, 1023
- Hard and soft X-ray selected active galactic nuclei: two distinct populations? (Franceschini A., Martín-Mirones J.M., Danese L., De Zotti G.), **264**, 35
- Electron-photon cascading of very high-energy gamma-rays in the infrared background (Protheroe R.J., Stanev T.), **264**, 191
- The kinetic power and luminosity of parsec-scale radio jets – an argument for heavy jets (Celotti A., Fabian A.C.), **264**, 228
- Stellar accretion in active galactic nuclei (King A.R., Done C.), **264**, 388
- An estimate of the central black hole mass in NGC 6814 (Campana S., Stella L.), **264**, 395
- Optical polarization in distant radio galaxies (Cimatti A., di Serego Alighieri S., Fosbury R.A.E., Salvati M., Taylor D.), **264**, 421
- Infrared imaging of the host galaxies of radio-loud and radio-quiet quasars (Dunlop J.S., Taylor G.L., Hughes D.H., Robson E.I.), **264**, 455
- 8C 0821 + 695: a giant radio galaxy at $z = 0.538$ (Lacy M., Rawlings S., Saunders R., Warner P.J.), **264**, 721
- Long-term radio observations of the nucleus of NGC 5128 (Centaurus A) (Botti L.C.L., Abraham Z.), **264**, 807
- X-ray photoionized accretion discs: UV and X-ray continuum spectra and polarization (Matt G., Fabian A.C., Ross R.R.), **264**, 839
- Are there two populations of BL Lac objects? (Gear W.K.), **264**, 919
- CO observations of ultrasoft active galactic nuclei (Thompson R.J., Jr), **264**, 999
- Imaging polarimetry of the starburst galaxy NGC 1808: another M82? (Scarrott S.M., Draper P.W., Stockdale D.P., Wolstencroft R.D.), **264**, 17
- A ROSAT HRI study of the interaction of the X-ray-emitting gas and radio lobes of NGC 1275 (Böhringer H., Voges W., Fabian A.C., Edge A.C., Neumann D.M.), **264**, L25
- A star orbiting around a supermassive rotating black hole: free motion and corrections due to star-disc collisions (Vokrouhlický D., Karas V.), **265**, 365
- X-ray properties of active galaxies with high intrinsic absorption (Warwick R.S., Sembay S., Yaqoob T., Makishima K., Ohashi T., Tashiro M., Kohmura Y.), **265**, 412
- A deep *ROSAT* survey – III. Deep radio observations of a selected field (Boyle B.J., Staveley-Smith L., Stewart G.C., Georgantopoulos I., Shanks T., Griffiths R.E.), **265**, 501
- Radiative reprocessing by blobs immersed in the X-ray-emitting regions of AGN (Bond I.A., Matsuoka M.), **265**, 619
- On the nature of rapid X-ray variability in active galactic nuclei (Green A.R., McHardy I.M., Lehto H.J.), **265**, 664
- BL Lacertae objects: general**
- Radio-loud AGN and the extragalactic gamma-ray background (Padovani P., Ghisellini G., Fabian A.C., Celotti A.), **260**, L21
- The recognition of BL Lac objects and their statistical properties (Browne I.W.A., Marchá M.J.M.), **261**, 795
- VLA observations of a complete sample of core-dominated radio sources (Murphy D.W., Browne I.W.A., Perley R.A.), **264**, 298
- Are there two populations of BL Lac objects? (Gear W.K.), **264**, 919
- Millimetre observations of X-ray-selected BL Lacs (Gear W.K.), **264**, L21
- Clustering**
- The cross-correlation of *IRAS* galaxies with Abell clusters and radio galaxies (Mo H.J., Peacock J.A., Xia X.Y.), **260**, 121
- Evolution of galaxy clustering: new data on the angular correlation function of faint galaxies (Couch W.J., Jurcevic J.S., Boyle B.J.), **260**, 241
- Wavelet analysis of the multifractal character of the galaxy distribution (Martínez V.J., Paredes S., Saar E.), **260**, 365
- The subdegree angular structure of the X-ray sky as seen by the Ginga satellite (Carrera F.J., Barcons X., Butcher J.A., Fabian A.C., Stewart G.C., Toffolatti L., Warwick R.S., Hayashida K., Inoue H., Kondo H.), **260**, 376
- The multifractal behaviour of hierarchical density distributions (Borgani S.), **260**, 537
- Topology in two dimensions – III. Modelling projected galaxy catalogues (Davies A., Coles P.), **260**, 553
- Topology in two dimensions – IV. CDM models with non-Gaussian initial conditions (Coles P., Moscardini L., Plionis M., Lucchin F., Matarrese S., Messina A.), **260**, 572
- The mass function of spiral galaxy haloes (Ashman K.M., Salucci P., Persic M.), **260**, 610
- Power spectrum of the matter distribution in the Universe on large scales (Einasto J., Gramann M., Saar E., Tago E.), **260**, 705
- Testing approximations for non-linear gravitational clustering (Coles P., Melott A.L., Shandarin S.F.), **260**, 765
- The clustering of QSOs at low redshift (Boyle B.J., Mo H.J.), **260**, 925
- Galaxy groups: abundance by luminosity and by velocity dispersion (Moore B., Frenk C.S., White S.D.M.), **261**, 827
- Do galactic potential wells depend on their large-scale environment? (Mo H.J., Lahav O.), **261**, 895
- The merging history of dark matter haloes in a hierarchical universe (Kaufmann G., White S.D.M.), **261**, 921
- X-ray archaeology in the Coma cluster (White S.D.M., Briel U.G., Henry J.P.), **261**, L8
- Connection of large-scale structures of the galaxy distribution behind the southern Milky Way (Yamada T., Takata T., Djameluddin T., Tomita A., Aoki K., Takeda A., Saitō M.), **262**, 79
- Statistics of lensing by clusters of galaxies – I. Giant arcs (Wu X.-P., Hammer F.), **262**, 187
- The QDOT and cluster dipoles: evidence for a low- Ω_0 Universe? (Plionis M., Coles P., Catelan P.), **262**, 465
- The three-point correlation function of rich clusters: the reliability of determinations from small samples (Davies A., Coles P.), **262**, 591
- A deep *ROSAT* survey – II. Observations of the isotropy of the 1–2 keV X-ray background (Georgantopoulos I., Stewart G.C., Shanks T., Griffiths R.E., Boyle B.J.), **262**, 619
- Merger rates in hierarchical models of galaxy formation (Lacey C., Cole S.), **262**, 627
- The Puppis cluster of galaxies behind the Galactic plane and the origin of the ‘Local Anomaly’ (Lahav O., Yamada T., Scharf C., Kraan-Korteweg R.C.), **262**, 711
- A *ROSAT* PSPC observation of Abell 478: the distribution of X-ray absorbing matter in a massive cooling flow (Allen S.W., Fabian A.C., Johnstone R.M., White D.A., Daines S.J., Edge A.C., Stewart G.C.), **262**, 901
- The amplitude of mass fluctuations in the Universe (White S.D.M., Efstatiou G., Frenk C.S.), **262**, 1023
- Galaxy formation with a local bias (Coles P.), **262**, 1065
- Radio haloes, cluster mergers, and cooling flows (Tribble P.C.), **263**, 31
- Spectroscopy of faint radio sources: the nature of the sub-mJy radio-source population (Benn C.R., Rowan-Robinson M., McMahon R.G., Broadhurst T.J., Lawrence A.), **263**, 98
- Luminosity dependence of galaxy clustering in extinction-corrected CfA data (Hasegawa T., Umemura M.), **263**, 191
- A test for dust in clusters of galaxies (Ferguson H.C.), **263**, 343
- The angular correlation function of galaxies with $B \sim 25$ mag (Roche N., Shanks T., Metcalfe N., Fong R.), **263**, 360
- Voids in gravitational instability scenarios – I. Global density and velocity fields in an Einstein-de Sitter universe (van de Weygaert R., van Kampen E.), **263**, 481
- The richness dependence of cluster correlations (Mann R.G., Heavens A.F., Peacock J.A.), **263**, 798
- Extragalactic light fluctuations in the decaying dark matter hypothesis (Scott D.), **263**, 903
- The fundamental plane of galaxy clusters (Schaeffer R., Maurogordato S., Cappi A., Bernardeau F.), **263**, L21
- Clustering of galaxies by the α -effect (Krishna V.), **264**, 257
- Three-point correlations of peaks in cosmological density fields (Coles P., Davies A.), **264**, 261
- Lagrangian theory of gravitational instability of Friedman-Lemaître cosmologies – second-order approach: an improved model for non-linear clustering (Bucher T., Ehlers J.), **264**, 375
- Mergers of collisionless systems (Pearce F.R., Thomas P.A., Couchman H.M.P.), **264**, 497

- A search for cold dust in clusters of galaxies with cooling flows (Annis J., Jewitt D.), **264**, 593
- The environments of optically selected QSOs at $0.9 < z < 1.5$ (Boyle B.J., Couch W.J.), **264**, 604
- Further analysis of a 'Complete Sample' in the Virgo Supercluster of galaxies (Vallée J.P.), **264**, 665
- Skewness as a test of non-Gaussian primordial density fluctuations (Coles P., Moscardini L., Lucchin F., Matarrese S., Messina A.), **264**, 749
- On the pairwise velocity dispersion of galaxies (Mo H.J., Jing Y.P., Börner G.), **264**, 825
- Galaxy clustering, morphology and luminosity (Iovino A., Giovanelli R., Haynes M., Chincarini G., Guzzo L.), **265**, 21
- Optical galaxies within 8000 km s^{-1} – I. The density field (Hudson M.J.), **265**, 43
- Optical galaxies within 8000 km s^{-1} – II. The peculiar velocity of the Local Group (Hudson M.J.), **265**, 72
- The three-dimensional power spectrum measured from the APM Galaxy Survey – I. Use of the angular correlation function (Baugh C.M., Efstathiou G.), **265**, 145
- Simulations of dissipative galaxy formation in hierarchically clustering universes – I. Tests of the code (Navarro J.F., White S.D.M.), **265**, 271
- On the nature of the blue light in central cluster galaxies (Crawford C.S., Fabian A.C.), **265**, 431
- Limits on the primordial fluctuation spectrum: void sizes and anisotropy of the cosmic microwave background radiation (Piran T., Lecar M., Goldwirth D.S., da Costa L.N., Blumenthal G.R.), **265**, 681
- Galaxy formation and the peaks formalism (Katz N., Quinn T., Gelb J.M.), **265**, 689
- A non-parametric and scale-independent method for cluster analysis – I. The univariate case (Pisani A.), **265**, 706
- Biased globular cluster formation (West M.J.), **265**, 755
- The Edinburgh-Durham Southern Galaxy Catalogue – VI. The stability of $w(\theta)$ (Nichol R.C., Collins C.A.), **265**, 867
- Galactic orientation within the Local Supercluster (Godlowski W.), **265**, 874
- The void probability function for flux-limited samples (Watson J.M., Rowan-Robinson M.), **265**, 1027
- Clusters: individual: Abell 478**
- A ROSAT PSPC observation of Abell 478: the distribution of X-ray absorbing matter in a massive cooling flow (Allen S.W., Fabian A.C., Johnstone R.M., White D.A., Daines S.J., Edge A.C., Stewart G.C.), **262**, 901
- Clusters: individual: Abell 773**
- Detection of the Sunyaev-Zel'dovich effect in Abell 773 (Grainge K., Jones M., Pooley G., Saunders R., Edge A.), **265**, L57
- Clusters: individual: A3574**
- A deep CCD search for low surface brightness galaxies in A3574 (Turner J.A., Phillipps S., Davies J.I., Disney M.J.), **261**, 39
- Clusters: individual: Coma**
- X-ray archaeology in the Coma cluster (White S.D.M., Briel U.G., Henry J.P.), **261**, L8
- Tully-Fisher distances to M31-like galaxies in the Coma cluster (Rood H.J., Williams B.A.), **263**, 211
- The dynamics of the outer regions of the Coma cluster (van Haarlem M.P., Cayón L., de la Cruz C.G., Martínez-González E., Rebolo R.), **264**, 71
- Clusters: individual: Perseus**
- A ROSAT HRI study of the interaction of the X-ray-emitting gas and radio lobes of NGC 1275 (Böhringer H., Voges W., Fabian A.C., Edge A.C., Neumann D.M.), **264**, L25
- Clusters: individual: Puppis**
- The Puppis cluster of galaxies behind the Galactic plane and the origin of the 'Local Anomaly' (Lahav O., Yamada T., Scharf C., Kraan-Korteweg R.C.), **262**, 711
- Compact**
- Abundances in the starburst galaxy II Zw 40 (Walsh J.R., Roy R.), **262**, 27
- Cooling flows**
- A ROSAT observation of the powerful distant radio galaxy 3C 356 (Crawford C.S., Fabian A.C.), **260**, L15
- X-ray archaeology in the Coma cluster (White S.D.M., Briel U.G., Henry J.P.), **261**, L8
- A ROSAT PSPC observation of Abell 478: the distribution of X-ray absorbing matter in a massive cooling flow (Allen S.W., Fabian A.C., Johnstone R.M., White D.A., Daines S.J., Edge A.C., Stewart G.C.), **262**, 901
- Radio haloes, cluster mergers, and cooling flows (Tribble P.C.), **263**, 31
- Elliptical galaxy cooling flows without mass drop-out (Tabor G., Binney J.), **263**, 323
- A search for cold dust in clusters of galaxies with cooling flows (Annis J., Jewitt D.), **264**, 593
- A ROSAT HRI study of the interaction of the X-ray-emitting gas and radio lobes of NGC 1275 (Böhringer H., Voges W., Fabian A.C., Edge A.C., Neumann D.M.), **264**, L25
- On the nature of the blue light in central cluster galaxies (Crawford C.S., Fabian A.C.), **265**, 431
- Distances and redshifts**
- Faint blue galaxies: high or low redshift? (Colless M., Ellis R.S., Broadhurst T.J., Taylor K., Peterson B.A.), **261**, 19
- A physical distance indicator for spiral galaxies and the determination of H_0 (Salucci P., Frenk C.S., Persic M.), **262**, 392
- Photoelectric and CCD photometry of E and S0 galaxies (Colless M., Burstein D., Wegner G., Saglia R.P., McMahan R., Davies R.L., Bertschinger E., Bagley G.), **262**, 475
- Optical spectroscopy of southern radio galaxies (Simpson C., Clements D.L., Rawlings S., Ward M.), **262**, 889
- Non-equilibrium motions in galaxies and gravitational redshift (Stiavelli M., Setti G.), **262**, L51
- Infall models of galaxy evolution: a solution to the redshift distribution problem? (Phillipps S.), **263**, 86
- Tully-Fisher distances to M31-like galaxies in the Coma cluster (Rood H.J., Williams B.A.), **263**, 211
- A complete sample of sources in the North Ecliptic Cap, selected at 38 MHz – II. CCD observations and their implications (Lacy M., Hill G.J., Kaiser M.-E., Rawlings S.), **263**, 707
- Galaxy redshifts: improved techniques (Heavens A.F.), **263**, 735
- Optical spectroscopy of a complete sample of southern 2-Jy radio sources (Tadhunter C.N., Morganti R., di Serego Alighieri S., Fosbury R.A.E., Danziger I.J.), **263**, 999
- The redshift of the lensing galaxy in the gravitationally lensed system B0218 + 35.7 (Browne I.W.A., Patnaik A.R., Walsh D., Wilkinson P.N.), **263**, L32
- A new, age-independent distance indicator for elliptical galaxies (Guzmán R., Lucey J.R.), **263**, L47
- The dynamics of the outer regions of the Coma cluster (van Haarlem M.P., Cayón L., de la Cruz C.G., Martínez-González E., Rebolo R.), **264**, 71
- On the pairwise velocity dispersion of galaxies (Mo H.J., Jing Y.P., Börner G.), **264**, 825
- The effects of seeing on the photometric properties of elliptical galaxies (Saglia R.P., Bertschinger E., Bagley G., Burstein D., Colless M., Davies R.L., McMahan R.K., Jr., Wegner G.), **264**, 961
- Optical galaxies within 8000 km s^{-1} – I. The density field (Hudson M.J.), **265**, 43
- A surface brightness correction to the $D_n - \sigma$ relation (van Albada T.S., Bertin G., Stiavelli M.), **265**, 627
- Reconstruction analysis – I. Redshift-space deprojection in the quasi-non-linear regime (Taylor A.N., Rowan-Robinson M.), **265**, 809
- Elliptical and lenticular, cD**
- Simple galaxy models with massive haloes (Evans N.W.), **260**, 191
- Three-integral models of oblate elliptical galaxies (Dehnen W., Gerhard O.E.), **261**, 311
- Can isophotal shape discriminate between possible origins of elliptical galaxies? (Governato F., Reduzzi L., Rampazzo R.), **261**, 379
- The intrinsic shapes of galactic discs (Fasano G., Amico P., Bertola F., Vio R., Zeilinger W.W.), **262**, 109
- Two-integral distribution functions for axisymmetric galaxies (Hunter C., Qian E.), **262**, 401
- Photoelectric and CCD photometry of E and S0 galaxies (Colless M., Burstein D., Wegner G., Saglia R.P., McMahan R., Davies R.L., Bertschinger E., Bagley G.), **262**, 475

- Line-strength gradients in elliptical galaxies (Davies R.L., Sadler E.M., Peletier R.F.), **262**, 650
- Non-equilibrium motions in galaxies and gravitational redshift (Stiavelli M., Setti G.), **262**, L51
- The evolution of faint radio sources (Rowan-Robinson M., Benn C.R., Lawrence A., McMahon R.G., Broadhurst T.J.), **263**, 123
- A test for dust in clusters of galaxies (Ferguson H.C.), **263**, 343
- High-resolution kinematic observations of rapidly rotating spheroidal components of galaxies (Carter D., Jenkins C.R.), **263**, 1049
- A new, age-independent distance indicator for elliptical galaxies (Guzmán R., Lucey J.R.), **263**, L47
- Globular cluster systems formed in galaxy mergers (Zepf S.E., Ashman K.M.), **264**, 611
- The effects of seeing on the photometric properties of elliptical galaxies (Saglia R.P., Bertschinger E., Bagley G., Burstein D., Colless M., Davies R.L., McMahon R.K., Jr, Wegner G.), **264**, 961
- Line-of-sight velocity profiles in spherical galaxies: breaking the degeneracy between anisotropy and mass (Gerhard O.E.), **265**, 213
- Statistical mechanics of galaxies (Hjorth J., Madsen J.), **265**, 237
- A family of potential-density pairs for spherical galaxies and bulges (Dehnen W.), **265**, 250
- On the nature of the blue light in central cluster galaxies (Crawford C.S., Fabian A.C.), **265**, 431
- Metallicity gradients in early-type galaxies (Carollo C.M., Danziger I.J., Buson L.), **265**, 553
- A surface brightness correction to the $D_n - \sigma$ relation (van Albada T.S., Bertin G., Stiavelli M.), **265**, 627
- The fundamental relations of elliptical galaxies (Guzmán R., Lucey J.R., Bower R.G.), **265**, 731
- On the shape of the light profiles of early-type galaxies (Caon N., Capaccioli M., D'Onofrio M.), **265**, 1013
- Evolution**
- Faint blue galaxies: high or low redshift? (Colless M., Ellis R.S., Broadhurst T.J., Taylor K., Peterson B.A.), **261**, 19
- The co-existence of spiral structure and abundance gradients (Edmunds M.G., Roy J.-R.), **261**, L17
- Merger rates in hierarchical models of galaxy formation (Lacey C., Cole S.), **262**, 627
- Evidence for systematic evolution in the properties of galaxies in distant clusters (Aragón-Salamanca A., Ellis R.S., Couch W.J., Carter D.), **262**, 764
- Infall models of galaxy evolution: a solution to the redshift distribution problem? (Phillipps S.), **263**, 86
- The evolution of faint radio sources (Rowan-Robinson M., Benn C.R., Lawrence A., McMahon R.G., Broadhurst T.J.), **263**, 123
- Cosmic evolution and luminosity dependence of the physical sizes of powerful radio galaxies and quasars (Singal A.K.), **263**, 139
- The angular correlation function of galaxies with $B \sim 25$ mag (Roche N., Shanks T., Metcalfe N., Fong R.), **263**, 360
- The radio-loud fraction of QSOs and its dependence on magnitude and redshift (Padovani P.), **263**, 461
- The nature of star formation in lensed galaxies at high redshift (Smail I., Ellis R.S., Aragón-Salamanca A., Soucail G., Mellier Y., Giraud E.), **263**, 628
- A complete sample of sources in the North Ecliptic Cap, selected at 38 MHz – II. CCD observations and their implications (Lacy M., Hill G.J., Kaiser M.-E., Rawlings S.), **263**, 707
- Thresholds and the chemical evolution of galactic discs (Chamcham K., Pitts E., Taylor R.J.), **263**, 967
- A new, age-independent distance indicator for elliptical galaxies (Guzmán R., Lucey J.R.), **263**, L47
- The formation and evolution of galaxies within merging dark matter haloes (Kauffmann G., White S.D.M., Guiderdoni B.), **264**, 201
- The environments of optically selected QSOs at $0.9 < z < 1.5$ (Boyle B.J., Couch W.J.), **264**, 604
- The nitrogen-to-oxygen ratio in galaxies, and its implications for the origin of nitrogen (Vila-Costas M.B., Edmunds M.G.), **265**, 199
- Did cosmic rays reionize the intergalactic medium? (Nath B.B., Biermann P.L.), **265**, 241
- Formation**
- New detections of Ly α emission in young galaxies (Terlevich E., Diaz A.I., Terlevich R., García Vargas M.L.), **260**, 3
- The cross-correlation of *IRAS* galaxies with Abell clusters and radio galaxies (Mo H.J., Peacock J.A., Xia X.Y.), **260**, 121
- Evolution of galaxy clustering: new data on the angular correlation function of faint galaxies (Couch W.J., Juricic J.S., Boyle B.J.), **260**, 241
- Topology in two dimensions – III. Modelling projected galaxy catalogues (Davies A., Coles P.), **260**, 553
- Topology in two dimensions – IV. CDM models with non-Gaussian initial conditions (Coles P., Moscardini L., Plionis M., Lucchin F., Matarrese S., Messina A.), **260**, 572
- The mass function of spiral galaxy haloes (Ashman K.M., Salucci P., Persic M.), **260**, 610
- Faint blue galaxies: high or low redshift? (Colless M., Ellis R.S., Broadhurst T.J., Taylor K., Peterson B.A.), **261**, 19
- Can isophotal shape discriminate between possible origins of elliptical galaxies? (Governato F., Reduzzi L., Rampazzo R.), **261**, 379
- Multivariate analysis of globular cluster systems in early-type galaxies (Santiago B.X., Djorgovski S.), **261**, 753
- Do galactic potential wells depend on their large-scale environment? (Mo H.J., Lahav O.), **261**, 895
- The merging history of dark matter haloes in a hierarchical universe (Kauffmann G., White S.D.M.), **261**, 921
- A possible forest of emission lines from protogalaxies (Nath B.B., Eichler D.), **261**, L25
- Young ellipticals at high redshift (Terlevich R.J., Boyle B.J.), **262**, 491
- The three-point correlation function of rich clusters: the reliability of determinations from small samples (Davies A., Coles P.), **262**, 591
- Merger rates in hierarchical models of galaxy formation (Lacey C., Cole S.), **262**, 627
- Line-strength gradients in elliptical galaxies (Davies R.L., Sadler E.M., Peletier R.F.), **262**, 650
- Gravitational lens frequencies and the cosmological constant: an examination of amplification bias and galaxy formation redshift (Sasaki S., Takahara F.), **262**, 681
- Evidence for systematic evolution in the properties of galaxies in distant clusters (Aragón-Salamanca A., Ellis R.S., Couch W.J., Carter D.), **262**, 764
- Galaxy formation with a local bias (Coles P.), **262**, 1065
- Extended H α emission from IRAS F10214 + 4724: starburst or active galactic nucleus? (Clements D.L., van der Werf P.P., Krabbe A., Blietz M., Genzel R., Ward M.J.), **262**, L23
- The formation of nuclei in newly formed galaxies and the evolution of the quasar population (Haehnelt M.G., Rees M.J.), **263**, 168
- Luminosity dependence of galaxy clustering in extinction-corrected CfA data (Hasegawa T., Umemura M.), **263**, 191
- A search for arcmin-scale anisotropy in the cosmic microwave background (Subrahmanyam R., Ekers R.D., Sinclair M., Silk J.), **263**, 416
- The nature of star formation in lensed galaxies at high redshift (Smail I., Ellis R.S., Aragón-Salamanca A., Soucail G., Mellier Y., Giraud E.), **263**, 628
- The fundamental plane of galaxy clusters (Schaeffer R., Maurogordato S., Cappi A., Bernardeau F.), **263**, L21
- The formation and evolution of galaxies within merging dark matter haloes (Kauffmann G., White S.D.M., Guiderdoni B.), **264**, 201
- Three-point correlations of peaks in cosmological density fields (Coles P., Davies A.), **264**, 261
- Mergers of collisionless systems (Pearce F.R., Thomas P.A., Couchman H.M.P.), **264**, 497
- Globular cluster systems formed in galaxy mergers (Zepf S.E., Ashman K.M.), **264**, 611
- Skewness as a test of non-Gaussian primordial density fluctuations (Coles P., Moscardini L., Lucchin F., Matarrese S., Messina A.), **264**, 749
- Neutral hydrogen at high redshifts as a probe of structure formation – I. Post-COBE analysis of CDM and HDM models (Subramanian K., Padmanabhan T.), **265**, 101
- Statistical mechanics of galaxies (Hjorth J., Madsen J.), **265**, 237
- Simulations of dissipative galaxy formation in hierarchically clustering universes – I. Tests of the code (Navarro J.F., White S.D.M.), **265**, 271
- Galaxy formation and the peaks formalism (Katz N., Quinn T., Gelb J.M.), **265**, 689

- The fundamental relations of elliptical galaxies** (Guzmán R., Lucey J.R., Bower R.G.), **265**, 731
Biased globular cluster formation (West M.J.), **265**, 755
Galactic orientation within the Local Supercluster (Godlowski W.), **265**, 874
- Fundamental parameters**
- The bivariate diameter-magnitude function of galaxies in the ESO-LV catalogue (Sodré L., Jr, Lahav O.), **260**, 285
The case for low surface brightness galaxies as the absorbers in QSO "g II systems" (Philipp S., Disney M.J., Davies J.I.), **260**, 453
Selection effects or high opacity? Understanding the surface brightness distribution of inclined disc galaxies (Davies J.I., Philipp S., Boyce P.J., Disney M.J.), **260**, 491
The mass function of spiral galaxy haloes (Ashman K.M., Salucci P., Persic M.), **260**, 610
A deep CCD search for low surface brightness galaxies in A3574 (Turner J.A., Philipp S., Davies J.I., Disney M.J.), **261**, 39
The intrinsic shapes of galactic discs (Fasano G., Amico P., Bertola F., Vio R., Zeilinger W.W.), **262**, 109
A physical distance indicator for spiral galaxies and the determination of H_0 (Salucci P., Frenk C.S., Persic M.), **262**, 392
Spectroscopic observations of Arp-Madore interacting galaxies - II. Galaxies with tails, loops of material or debris (Sekiguchi K., Wolstencroft R.D.), **263**, 349
The fundamental plane of galaxy clusters (Schaeffer R., Maurogordat S., Cappi A., Bernardeau F.), **263**, L21
A new, age-independent distance indicator for elliptical galaxies (Guzmán R., Lucey J.R.), **263**, L47
The formation and evolution of galaxies within merging dark matter haloes (Kauffmann G., White S.D.M., Guiderdoni B.), **264**, 201
Morphological classification of galaxies using simple photometric parameters (Doi M., Fukugita M., Okamura S.), **264**, 832
The effects of seeing on the photometric properties of elliptical galaxies (Saglia R.P., Bertschinger E., Bagley G., Burstein D., Colless M., Davies R.L., McMahon R.K., Jr, Wegner G.), **264**, 961
Galaxy clustering, morphology and luminosity (Iovino A., Giovanelli R., Haynes M., Chincarini G., Guzzo L.), **265**, 21
Metallicity gradients in early-type galaxies (Carollo C.M., Danziger I.J., Buson L.), **265**, 553
A surface brightness correction to the $D_n - \sigma$ relation (van Albada T.S., Bertin G., Stiavelli M.), **265**, 627
The fundamental relations of elliptical galaxies (Guzmán R., Lucey J.R., Bower R.G.), **265**, 731
On the shape of the light profiles of early-type galaxies (Caon N., Capaccioli M., D'Onofrio M.), **265**, 1013
- General**
- Statistics of lensing by clusters of galaxies - I. Giant arcs (Wu X.-P., Hammer F.), **262**, 187
- Individual: 3C 227**
- The extended nebulosity in the radio galaxy 3C 227 (Prieto M.A., Walsh J.R., Fosbury R.A.E., di Serego Alighieri S.), **263**, 10
- Individual: 3C 356**
- A ROSAT observation of the powerful distant radio galaxy 3C 356 (Crawford C.S., Fabian A.C.), **260**, L15
- Individual: 1156 + 295**
- Erratum: VLBI, MERLIN and VLA observations of the blazar 1156 + 295: a bending relativistic jet (MHardy I.M., Marscher A.P., Gear W.K., Muxlow T., Lehto H.J., Abraham R.G.), **261**, 464
- Individual: Ark 120**
- ROSAT PSPC observations of NGC 7469 and Ark 120 (Brandt W.N., Fabian A.C., Nandra K., Tsuruta S.), **265**, 996
- Individual: Arp 90**
- TAURUS and CCD observations of Arp 90 (Lewis J.R., Bowen D.V.), **264**, 818
- Individual: B0218 + 35.7**
- B0218 + 35.7: a gravitationally lensed system with the smallest separation (Patnaik A.R., Browne I.W.A., King L.J., Muxlow T.W.B., Walsh D., Wilkinson P.N.), **261**, 435
- Individual: Cartwheel**
- Spokes in ring galaxies (Hernquist L., Weil M.L.), **261**, 804
- Individual: Cen A**
- Long-term radio observations of the nucleus of NGC 5128 (Centaurus A) (Botti L.C.L., Abraham Z.), **264**, 807
- Individual: IC 5063**
- Evidence for an obscured broad-line region in the early-type radio galaxy IC 5063 (Inglis M.D., Brindle C., Hough J.H., Young S., Axon D.J., Bailey J.A., Ward M.J.), **263**, 895
- Individual: II Zw 40**
- Abundances in the starburst galaxy II Zw 40 (Walsh J.R., Roy J.-R.), **262**, 27
- Individual: IRAS 10214 + 4724**
- Strong limits on the 20- μ m emission from the high-redshift galaxy IRAS 10214 + 4724 (Telesco C.M.), **263**, L37
- Individual: IRAS F10214 + 4724**
- Optical, infrared, radio and polarization imaging of the high-redshift galaxy IRAS F10214 + 4724 (Lawrence A., Rowan-Robinson M., Oliver S., Taylor A., McMahon R.G., Broadhurst T., Scarrott S.M., Ralph C.D., Draper P.W., Ellis R.S., Tadhunter C., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Efstathiou G.P., Saunders W.S.), **260**, 28
- The ultraviolet-to-radio continuum of the ultraluminous galaxy IRAS F10214 + 4724 (Rowan-Robinson M., Efstathiou A., Lawrence A., Oliver S., Taylor A., Broadhurst T.J., McMahon R.G., Benn C.R., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Saunders W.S., Clements D.L., Ellis R.S., Robson I.), **261**, 513
- Extended H α emission from IRAS F10214 + 4724: starburst or active galactic nucleus? (Clements D.L., van der Werf P.P., Krabbe A., Blietz M., Genzel R., Ward M.J.), **262**, L23
- Individual: IRAS 110548 – 1131**
- Spectropolarimetry of the ultraluminous infrared galaxy IRAS 110548 – 1131 (Young S., Hough J.H., Bailey J.A., Axon D.J., Ward M.J.), **260**, L1
- Individual: Leo II**
- Deep CCD photometry of the dwarf spheroidal galaxy Leo II (Demers S., Irwin M.J.), **261**, 657
- Individual: M31**
- Global magnetic patterns in the Milky Way and the Andromeda nebula (Pozd A., Shukurov A., Sokoloff D.), **264**, 285
- The least action principle and the spin of galaxies in the Local Group (Dunn A.M., Laflamme R.), **264**, 865
- Individual: MBG 02223–1922**
- MBG 02223–1922: a newly identified luminous Seyfert galaxy (Coziol R., Peña M., Demers S., Torres-Peimbert S.), **261**, 170
- Individual: Mrk 3**
- High-resolution radio observations of Markarian 3 (Kukula M.J., Ghosh T., Pedlar A., Schilizzi R.T., Miley G.K., de Bruyn A.G., Saikia D.J.), **264**, 893
- Individual: Mrk 841**
- The broad-band X-ray spectral variability of Mrk 841 (George I.M., Nandra K., Fabian A.C., Turner T.J., Done C., Day C.S.R.), **260**, 111
- Individual: NGC 1068**
- Unified theories of active galactic nuclei: the hard X-ray spectrum of NGC 1068 (Smith D.A., Done C., Pounds K.A.), **263**, 54
- Individual: NGC 1275**
- A ROSAT HRI study of the interaction of the X-ray-emitting gas and radio lobes of NGC 1275 (Böhringer H., Voges W., Fabian A.C., Edge A.C., Neumann D.M.), **264**, L25
- Individual: NGC 1808**
- Imaging polarimetry of the starburst galaxy NGC 1808: another M82? (Scarrott S.M., Draper P.W., Stockdale D.P., Wolstencroft R.D.), **264**, L7
- Individual: NGC 3310**
- Optical and near-IR spectrophotometry of the galaxy NGC 3310 (Pastoriza M.G., Dottori H.A., Terlevich E., Terlevich R., Diaz A.I.), **260**, 177
- Individual: NGC 3628**
- Neutral hydrogen observations of NGC 3628 (Wilding T., Alexander P., Green D.A.), **263**, 1075

- Individual: NGC 4151**
Further probing of the X-ray source in NGC 4151: new constraints on the nuclear geometry (Yaqoob T., Warwick R.S., Makino F., Otani C., Sokoloski J.L., Bond I.A., Yamauchi M.), **262**, 435
The radio nucleus of NGC 4151 at 5 and 8 GHz (Pedlar A., Kukula M.J., Longley D.P.T., Muxlow T.W.B., Axon D.J., Baum S., O'Dea C., Unger S.W.), **263**, 471
- Individual: NGC 4472**
Elliptical galaxy cooling flows without mass drop-out (Tabor G., Binney J.), **263**, 323
- Individual: NGC 4486**
Multicolour surface photometry of NGC 4486 (M87) and its jet (Zeilinger W.W., Møller P., Stiavelli M.), **261**, 175
- Individual: NGC 4636**
Elliptical galaxy cooling flows without mass drop-out (Tabor G., Binney J.), **263**, 323
- Individual: NGC 4649**
Elliptical galaxy cooling flows without mass drop-out (Tabor G., Binney J.), **263**, 323
- Individual: NGC 5128**
Structure of NGC 5128 (Centaurus A) at submillimetre wavelengths (Hawarden T.G., Sandell G., Matthews H.E., Friberg P., Watt G.D., Smith P.A.), **260**, 844
- Individual: NGC 5408**
ROSAT PSPC observations of the extragalactic H II region NGC 5408 (Fabian A.C., Ward M.J.), **263**, L51
- Individual: NGC 5548**
A ROSAT observation of NGC 5548 (Nandra K., Fabian A.C., George I.M., Branduardi-Raymont G., Lawrence A., Mason K.O., McHardy I.M., Pounds K.A., Stewart G.C., Ward M.J., Warwick R.S.), **260**, 504
The short-term disappearance of the broad-line region in NGC 5548: implications for the dusty torus model (Loska Z., Czerny B., Szczepański R.), **262**, L31
- Individual: NGC 6814**
Stellar accretion in active galactic nuclei (King A.R., Done C.), **264**, 388
An estimate of the central black hole mass in NGC 6814 (Campana S., Stella L.), **264**, 395
- Individual: NGC 7469**
ROSAT PSPC observations of NGC 7469 and Ark 120 (Brandt W.N., Fabian A.C., Nandra K., Tsuruta S.), **265**, 996
- Individual: UGC 12591**
A new method for obtaining stellar velocity distributions from absorption-line spectra: unresolved Gaussian decomposition (Kuijken K., Merrifield M.R.), **264**, 712
- Interactions**
The character of internal motions in galaxy triplets (Kiseleva L., Orlov V.), **260**, 475
Can isophotal shape discriminate between possible origins of elliptical galaxies? (Governato F., Reduzzi L., Rampazzo R.), **261**, 379
Spokes in ring galaxies (Hernquist L., Weil M.L.), **261**, 804
The density structure of a galaxy influenced by a massive companion (Namboodiri P.M.S., Kochhar R.K.), **261**, 855
Kinematics in the outer parts of the SMC (Hatzidimitriou D., Cannon R.D., Hawkins M.R.S.), **261**, 873
The Oosterhoff effect (van den Bergh S.), **262**, 588
Merger rates in hierarchical models of galaxy formation (Lacey C., Cole S.), **262**, 627
The Puppis cluster of galaxies behind the Galactic plane and the origin of the 'Local Anomaly' (Lahav O., Yamada T., Scharf C., Kraan-Korteweg R.C.), **262**, 711
On the formation of spiral structure in gaseous discs through tidal interaction - II. Retrograde encounters (Sørensen S.-A.), **263**, 1
Spectroscopic observations of Arp-Madore interacting galaxies - II. Galaxies with tails, loops of material or debris (Sekiguchi K., Wolfscroft R.D.), **263**, 349
Neutral hydrogen observations of NGC 3628 (Wilding T., Alexander P., Green D.A.), **263**, 1075
- The formation and evolution of galaxies within merging dark matter haloes (Kauffmann G., White S.D.M., Guiderdoni B.), **264**, 201
Globular cluster systems formed in galaxy mergers (Zepf S.E., Ashman K.M.), **264**, 611
- TAURUS and CCD observations of Arp 90** (Lewis J.R., Bowen D.V.), **264**, 818
The least action principle and the spin of galaxies in the Local Group (Dunn A.M., Laflamme R.), **264**, 865
Dynamical friction in disc galaxies (Donner K.J., Sundelius B.), **265**, 88
- Intergalactic medium**
Detailed structure of expanding photoionized Ly α clouds (Petitjean P., Bergeron J., Carswell R.F., Puget J.L.), **260**, 67
The Lyman α forest towards the $z = 2.72$ QSO HS 1700 + 6416 (Sanz J.L., Clavel J., Naylor T., Wamsteker W.), **260**, 468
Tests for the minihalo model of the Lyman alpha forest (Miralda-Escudé J., Rees M.J.), **260**, 617
Physical conditions in the intergalactic medium (Subrahmanyam R., Saripalli L.), **260**, 908
What is the temperature of the Ly α clouds at $z \sim 2$? (Stanek K.Z.), **261**, 52
X-ray archaeology in the Coma cluster (White S.D.M., Briel U.G., Henry J.P.), **261**, L8
On the He II Gunn-Peterson effect and the He II forest (Miralda-Escudé J.), **262**, 273
Evidence for structure in the H I column density distribution of QSO absorbers (Petitjean P., Webb J.K., Rauch M., Carswell R.F., Lanzetta K.), **262**, 499
A ROSAT PSPC observation of Abell 478: the distribution of X-ray absorbing matter in a massive cooling flow (Allen S.W., Fabian A.C., Johnstone R.M., White D.A., Daines S.J., Edge A.C., Stewart G.C.), **262**, 901
A test for dust in clusters of galaxies (Ferguson H.C.), **263**, 343
Absorption spectra of Q 0000-263 and 1442 + 101 (Frye B.L., Bechtold J., Moustakas L.A., Dobrzycki A.), **263**, 575
8C 0821 + 695: a giant radio galaxy at $z = 0.538$ (Lacy M., Rawlings S., Saunders R., Warner P.J.), **264**, 721
Did cosmic rays reionize the intergalactic medium? (Nath B.B., Biermann P.L.), **265**, 241
Detection of the Sunyaev-Zel'dovich effect in Abell 773 (Grainge K., Jones M., Pooley G., Saunders R., Edge A.), **265**, L57
- ISM**
The case for low surface brightness galaxies as the absorbers in QSO Mg II systems (Phillipps S., Disney M.J., Davies J.I.), **260**, 453
Selection effects or high opacity? Understanding the surface brightness distribution of inclined disc galaxies (Davies J.I., Phillipps S., Boyce P.J., Disney M.J.), **260**, 491
Dust radiation in active galactic nuclei - I. Spherical distribution (Loska Z., Szczepański R., Czerny B.), **261**, 63
Submillimetre observations of galaxies - I. First results (Clements D.L., Andreani P., Chase S.T.), **261**, 299
Refractory element depletion and the determination of abundances in H II regions (Henry R.B.C.), **261**, 306
Cold dust around high-redshift quasars (Andreani P., La Franca F., Cristiani S.), **261**, L35
Hydrogen molecules in quasar broad-line regions (Crossas M., Weisheit J.C.), **262**, 359
The extended nebulosity in the radio galaxy 3C 227 (Prieto M.A., Walsh J.R., Fosbury R.A.E., di Serego Alighieri S.), **263**, 10
Elliptical galaxy cooling flows without mass drop-out (Tabor G., Binney J.), **263**, 323
Multigrain dust cloud models of starburst and Seyfert galaxies (Rowan-Robinson M., Efstathiou A.), **263**, 675
Neutral hydrogen observations of NGC 3628 (Wilding T., Alexander P., Green D.A.), **263**, 1075
The nature of the millimetre emission in NGC 4102, NGC 4418, NGC 6000 and Mrk 231 (Roche P.F., Chandler C.J.), **265**, 486
- Irregular**
ROSAT PSPC observations of the extragalactic H II region NGC 5408 (Fabian A.C., Ward M.J.), **263**, L51
- Jets**
Ballistic stellar jets from sources with a time-dependent ejection direction (Raga A.C., Cantó J., Biro S.), **260**, 163

- Structure of NGC 5128 (Centaurus A) at submillimetre wavelengths (Hawarden T.G., Sandell G., Matthews H.E., Friberg P., Watt G.D., Smith P.A.), 260, 844
- Physical conditions in the intergalactic medium (Subrahmanyan R., Saripalu L.), 260, 908
- Multicolour surface photometry of NGC 4486 (M87) and its jet (Zeilinger W.W., Möller P., Stiavelli M.), 261, 175
- The steady-state structure of relativistic magnetic jets (Dubal M.R., Pantano O.), 261, 203
- Erratum: VLBI, MERLIN and VLA observations of the blazar 1156 + 295: a bending relativistic jet (MHardy I.M., Marscher A.P., Gear W.K., Muxlow T., Lehto H.J., Abraham R.G.), 261, 464
- The infrared-millimetre-centimetre flaring behaviour of the quasar 3C 273 (Robson E.I., Litchfield S.J., Gear W.K., Hughes D.H., Sandell G., Courvoisier T.J.-L., Paltani S., Valtaoja E., Teräsanta H., Tornikoski M., Steppe H., Wright M.C.H.), 262, 249
- Evidence against the unified scheme for powerful radio galaxies and quasars (Singal A.K.), 262, L27
- The radio nucleus of NGC 4151 at 5 and 8 GHz (Pedlar A., Kukula M.J., Longley D.P.T., Muxlow T.W.B., Axon D.J., Baum S., O'Dea C., Unger S.W.), 263, 471
- Collimation effects of the Kerr field (Bičák J., Semerák O., Hadrava P.), 263, 545
- Are the filaments formed by synchrotron thermal instability bright? (de Gouveia Dal Pino E.M., Opher R.), 263, 687
- The kinetic power and luminosity of parsec-scale radio jets – an argument for heavy jets (Celotti A., Fabian A.C.), 264, 228
- X-ray beaming in radio quasars (Kembhavi A.), 264, 683
- Machine-gun jets from time-dependent sources (Raga A.C., Biro S.), 264, 758
- Long-term radio observations of the nucleus of NGC 5128 (Centaurus A) (Bott L.C.L., Abraham Z.), 264, 807
- High-resolution radio observations of Markarian 3 (Kukula M.J., Ghosh T., Pedlar A., Schilizzi R.T., Miley G.K., de Bruyn A.G., Saikia D.J.), 264, 893
- On the radio properties of broad-absorption-line QSOs (de Kool M.), 265, L17
- Kinematics and dynamics**
- Simple galaxy models with massive haloes (Evans N.W.), 260, 191
- Equilibria of rapidly rotating polytropes (Balmforth N.J., Howard L.N., Spiegel E.A.), 260, 253
- A model for the bilateral interaction between dynamo action and star formation in galactic discs (Nozakura T.), 260, 861
- The kinematics of face-on disc galaxies, and the nature of the Galactic H I layer (Merrifield M.R.), 261, 233
- Models for spherical stellar systems with isotropic cores and anisotropic haloes (Louis P.D.), 261, 283
- Three-integral models of oblate elliptical galaxies (Dehnen W., Gerhard O.E.), 261, 311
- Angle variables for numerically fitted orbital tori (Binney J., Kumar S.), 261, 584
- Spokes in ring galaxies (Hernquist L., Weil M.L.), 261, 804
- Galaxy groups: abundance by luminosity and by velocity dispersion (Moore B., Frenk C.S., White S.D.M.), 261, 827
- The density structure of a galaxy influenced by a massive companion (Namboodiri P.M.S., Kochhar R.K.), 261, 855
- Kinematics in the outer parts of the SMC (Hatzidimitriou D., Cannon R.D., Hawkins M.R.S.), 261, 873
- Dark matter, not magnetism (Persic M., Salucci P.), 261, L21
- Two-integral distribution functions for axisymmetric galaxies (Hunter C., Qian E.), 262, 401
- Large-scale non-linear limiting of galactic $\alpha^2\omega$ -dynamics (Nozakura T.), 262, 970
- N-body simulations with perturbation particles – I. Method and tests (Leeuw F., Combes F., Binney J.), 262, 1013
- Designer basis functions for potentials in galactic dynamics (Saha P.), 262, 1062
- On the potentials of galactic discs (Cuddeford P.), 262, 1076
- Erratum: Potential-density pairs for galaxies (de Zeeuw T., Pfenniger D.), 262, 1087
- On the formation of spiral structure in gaseous discs through tidal interaction – II. Retrograde encounters (Sørensen S.-A.), 263, 1
- Biorthogonal potential-density sets for flat discs (Qian E.E.), 263, 394
- High-resolution kinematic observations of rapidly rotating spheroidal components of galaxies (Carter D., Jenkins C.R.), 263, 1049
- Neutral hydrogen observations of NGC 3628 (Wilding T., Alexander P., Green D.A.), 263, 1075
- The dynamics of the outer regions of the Coma cluster (van Haarlem M.P., Cayón L., de la Cruz C.G., Martínez-González E., Rebolo R.), 264, 71
- Simple discs with flat rotation curves (Evans N.W., Collett J.L.), 264, 353
- A new method for obtaining stellar velocity distributions from absorption-line spectra: unresolved Gaussian decomposition (Kuijken K., Merrifield M.R.), 264, 712
- TAURUS and CCD observations of Arp 90 (Lewis J.R., Bowen D.V.), 264, 818
- The least action principle and the spin of galaxies in the Local Group (Dunn A.M., Laflamme R.), 264, 865
- Dynamical friction in disc galaxies (Donner K.J., Sundelius B.), 265, 88
- Relativistic discs and flat galaxy models (Bičák J., Lynden-Bell D., Pichon C.), 265, 126
- Line-of-sight velocity profiles in spherical galaxies: breaking the degeneracy between anisotropy and mass (Gerhard O.E.), 265, 213
- Statistical mechanics of galaxies (Hjorth J., Madsen J.), 265, 237
- A family of potential-density pairs for spherical galaxies and bulges (Dehnen W.), 265, 250
- Galactic dynamos and density wave theory – II. An alternative treatment for strong non-axisymmetry (Subramanian K., Mestel L.), 265, 649
- Local Group**
- Deep CCD photometry of the dwarf spheroidal galaxy Leo II (Demers S., Irwin M.J.), 261, 657
- The Puppis cluster of galaxies behind the Galactic plane and the origin of the ‘Local Anomaly’ (Lahav O., Yamada T., Scharf C., Kraan-Korteweg R.C.), 262, 711
- The least action principle and the spin of galaxies in the Local Group (Dunn A.M., Laflamme R.), 264, 865
- Optical galaxies within 8000 km s⁻¹ – II. The peculiar velocity of the Local Group (Hudson M.J.), 265, 72
- Luminosity function, mass function**
- Faint blue galaxies: high or low redshift? (Colless M., Ellis R.S., Broadhurst T.J., Taylor K., Peterson B.A.), 261, 19
- Galaxy groups: abundance by luminosity and by velocity dispersion (Moore B., Frenk C.S., White S.D.M.), 261, 827
- Young ellipticals at high redshift (Terlevich R.J., Boyle B.J.), 262, 491
- The radio-loud fraction of QSOs and its dependence on magnitude and redshift (Padovani P.), 263, 461
- A complete galaxy redshift survey – V. Infrared luminosity functions for field galaxies (Mobasher B., Sharples R.M., Ellis R.S.), 263, 560
- The formation and evolution of galaxies within merging dark matter haloes (Kauffmann G., White S.D.M., Guiderdoni B.), 264, 201
- Magellanic Clouds**
- Very red stars between the Magellanic Clouds: discovery of carbon stars in the outer LMC and SMC haloes (Demers S., Irwin M.J., Kunkel W.E.), 260, 103
- CCD photometry of variable stars in the Magellanic Clouds – III. The eclipsing binary HV 12484 (Tobin W., Duncan S.P.R., West S.R.D., Gilmore A.C.), 260, 777
- CCD photometry of two young Large Magellanic Cloud clusters: NGC 2004 and 2100 (Balona L.A., Jerzykiewicz M.), 260, 782
- The young Large Magellanic Cloud clusters NGC 2004 and 2100 and their short-period variables (Balona L.A.), 260, 795
- Optical spectroscopy of the massive X-ray binary SMC X-1/Sk 160 (Reynolds A.P., Hilditch R.W., Bell S.A., Hill G.), 261, 337
- Kinematics in the outer parts of the SMC (Hatzidimitriou D., Cannon R.D., Hawkins M.R.S.), 261, 873
- Circumstellar dust emission in five Large Magellanic Cloud supergiants (Roche P.F., Aitken D.K., Smith C.H.), 262, 301
- Spectroscopic and photometric observations of supernova 1987A – VII. Days 793 to 1770 (Caldwell J.A.R. et al.), 262, 313
- The Magellanic Clouds as the source of gamma-ray bursters (Fabian A.C., Podsiadlowski P.), 263, 49

- The kinematics of the Honeycomb nebula in the vicinity of SN 1987A** (Meaburn J., Wang L., Palmer J., Lopez J.A.), **263**, L6
Surface brightness distance determinations to the Large Magellanic Cloud Cepheid variables HV 899 and 2257 (Gieren W.P.), **265**, 184
CCD photometry of variable stars in the Magellanic Clouds – IV. The eclipsing binary HV 1761 and nearby field variables (Duncan S.P.R., Tobin W., Watson R.D., Gilmore A.C.), **265**, 189
Eclipsing binaries in the Magellanic Clouds – II. Absolute dimensions and distance modulus for HV 5936 in the Large Magellanic Cloud (Bell S.A., Hill G., Hilditch R.W., Clausen J.V., Reynolds A.P.), **265**, 1047
- Magnetic fields**
A model for the bilateral interaction between dynamo action and star formation in galactic discs (Nozakura T.), **260**, 861
Magnetic fields in late-type galaxies (Fitt A.J., Alexander P.), **261**, 445
Dark matter, not magnetism (Persic M., Salucci P.), **261**, L21
Large-scale non-linear limiting of galactic $\alpha^2\omega$ -dynamics (Nozakura T.), **262**, 970
Magnetic reconnection in the disc and halo (Kahn F.D., Brett L.), **263**, 37
Global magnetic patterns in the Milky Way and the Andromeda nebula (Pozzetti A., Shukurov A., Sokoloff D.), **264**, 285'
Further analysis of a 'Complete Sample' in the Virgo Supercluster of galaxies (Vallée J.P.), **264**, 665
Imaging polarimetry of the starburst galaxy NGC 1808; another M82? (Scarrott S.M., Draper P.W., Stockdale D.P., Wolstencroft R.D.), **264**, L7
Galactic dynamos and density wave theory – II. An alternative treatment for strong non-axisymmetry (Subramanian K., Mestel L.), **265**, 649
- Nuclei**
The broad-line regions of active galaxies (Cassidy I., Raine D.J.), **260**, 385
Accretion discs in active galactic nuclei: tell-tale signs of the nuclear star cluster? (Perry J.J., Williams R.), **260**, 437
Structure of NGC 5128 (Centaurus A) at submillimetre wavelengths (Hawarden T.G., Sandell G., Matthews H.E., Friberg P., Watt G.D., Smith P.A.), **260**, 844
Dust radiation in active galactic nuclei – I. Spherical distribution (Loska Z., Szczesna R., Czerny B.), **261**, 63
Black hole remnants: soft X-ray flares from tidally disrupted stars (Sembay S., West R.G.), **262**, 141
Further probing of the X-ray source in NGC 4151: new constraints on the nuclear geometry (Yaqoob T., Warwick R.S., Makino F., Otani C., Sokoloski J.L., Bond I.A., Yamauchi M.), **262**, 435
Corrigendum: On the origin of the radio emission in *IRAS* galaxies with high and ultrahigh luminosity: the starburst–AGN controversy (Colina L., Pérez-Olea D.), **262**, 543
Anisotropic induced Compton scattering – constraints on models of active galactic nuclei (Copp P., Blandford R.D., Rees M.J.), **262**, 603
The short-term disappearance of the broad-line region in NGC 5548: implications for the dusty torus model (Loska Z., Czerny B., Szczesna R.), **262**, L31
Unified theories of active galactic nuclei: the hard X-ray spectrum of NGC 1068 (Smith D.A., Done C., Pounds K.A.), **263**, 54
Response functions as diagnostics of the broad-line region in active galactic nuclei (Goad M.R., O'Brien P.T., Gondhalekar P.M.), **263**, 149
CCD imaging of Seyfert galaxies: deconvolution of the nuclear and stellar components (Kotilainen J.K., Ward M.J., Williger G.M.), **263**, 655
Hard and soft X-ray selected active galactic nuclei: two distinct populations? (Franceschini A., Martín-Mirones J.M., Danese L., De Zotti G.), **264**, 35
Stellar accretion in active galactic nuclei (King A.R., Done C.), **264**, 388
TAURUS and CCD observations of Arp 90 (Lewis J.R., Bowen D.V.), **264**, 818
CO observations of ultrasoft active galactic nuclei (Thompson R.J.), **264**, 999
Radiative reprocessing by blobs immersed in the X-ray-emitting regions of AGN (Bond I.A., Matsuoka M.), **265**, 619
- On the nature of rapid X-ray variability in active galactic nuclei (Green A.R., McHardy I.M., Lehto H.J.), **265**, 664
- Peculiar**
Optical and near-IR spectrophotometry of the galaxy NGC 3310 (Pastoriza M.G., Dottori H.A., Terlevich E., Terlevich R., Diaz A.I.), **260**, 177
Spokes in ring galaxies (Hernquist L., Weil M.L.), **261**, 804
Long-term radio observations of the nucleus of NGC 5128 (Centaurus A) (Botti L.C.L., Abraham Z.), **264**, 807
- Photometry**
Selection effects or high opacity? Understanding the surface brightness distribution of inclined disc galaxies (Davies J.I., Phillips S., Boyce P.J., Disney M.J.), **260**, 491
A deep CCD search for low surface brightness galaxies in A3574 (Turner J.A., Phillips S., Davies J.I., Disney M.J.), **261**, 39
M80 02223–1922: a newly identified luminous Seyfert galaxy (Coziol R., Peñal M., Demers S., Torres-Peimbert S.), **261**, 170
Multicolour surface photometry of NGC 4486 (M87) and its jet (Zeilingher W.W., Möller P., Stiavelli M.), **261**, 175
Can isophotal shape discriminate between possible origins of elliptical galaxies? (Governato F., Reduzzi L., Rampazzo R.), **261**, 379
The photometric properties of 'box/peanut' galactic bulges (Shaw M.), **261**, 718
Photoelectric and CCD photometry of E and S0 galaxies (Colless M., Burstein D., Wegner G., Saglia R.P., McMahan R., Davies R.L., Bertschinger E., Bagley G.), **262**, 475
Evidence for systematic evolution in the properties of galaxies in distant clusters (Aragón-Salamanca A., Ellis R.S., Couch W.J., Carter D.), **262**, 764
A search for intra-night optical variability in radio-quiet QSOs (Gopal-Krishna, Sagar R., Wiita P.J.), **262**, 963
A complete galaxy redshift survey – V. Infrared luminosity functions for field galaxies (Mobasher B., Sharples R.M., Ellis R.S.), **263**, 560
The nature of star formation in lensed galaxies at high redshift (Smail I., Ellis R.S., Aragón-Salamanca A., Soucail G., Mellier Y., Giraud E.), **263**, 628
CCD imaging of Seyfert galaxies: deconvolution of the nuclear and stellar components (Kotilainen J.K., Ward M.J., Williger G.M.), **263**, 655
A complete sample of sources in the North Ecliptic Cap, selected at 38 MHz – II. CCD observations and their implications (Lacy M., Hill G.J., Kaiser M.E., Rawlings S.), **263**, 707
Strong limits on the 20- μ m emission from the high-redshift galaxy IRAS 10214 + 4724 (Telesco C.M.), **263**, L37
Infrared imaging of the host galaxies of radio-loud and radio-quiet quasars (Dunlop J.S., Taylor G.L., Hughes D.H., Robson E.I.), **264**, 455
Morphological classification of galaxies using simple photometric parameters (Doi M., Fukugita M., Okamura S.), **264**, 832
Are there two populations of BL Lac objects? (Gear W.K.), **264**, 919
The effects of seeing on the photometric properties of elliptical galaxies (Saglia R.P., Bertschinger E., Bagley G., Burstein D., Colless M., Davies R.L., McMahan R.K., Jr, Wegner G.), **264**, 961
Statistical mechanics of galaxies (Hjorth J., Madsen J.), **265**, 237
A family of potential-density pairs for spherical galaxies and bulges (Dehnen W.), **265**, 250
Galaxy surface photometry with Kodak Technical Pan film (Phillips S., Parker Q.A.), **265**, 385
The nature of the millimetre emission in NGC 4102, NGC 4418, NGC 6000 and Mrk 231 (Roche P.F., Chandler C.J.), **265**, 486
A surface brightness correction to the $D_n - \sigma$ relation (van Albada T.S., Bertin G., Stiavelli M.), **265**, 627
On the shape of the light profiles of early-type galaxies (Caon N., Capaccioli M., D'Onofrio M.), **265**, 1013
- Quasars: absorption lines**
Detailed structure of expanding photoionized Ly α clouds (Petitjean P., Bergeron J., Carswell R.F., Puget J.L.), **260**, 67
The case for low surface brightness galaxies as the absorbers in QSO Mg II systems (Phillips S., Disney M.J., Davies J.I.), **260**, 453
The Lyman α forest towards the $z = 2.72$ QSO HS 1700 + 6416 (Sanz J.L., Clavel J., Naylor T., Wamsteker W.), **260**, 468

- A re-analysis of the spectrum of QSO 2206–199 (Rauch M., Carswell R.F., Webb J.K., Weymann R.J.), **260**, 589
- Tests for the minihalo model of the Lyman alpha forest (Miralda-Escudé J., Rees M.J.), **260**, 617
- What is the temperature of the Ly α clouds at $z \sim 2$? (Stanek K.Z.), **261**, 52
- On the He II Gunn-Peterson effect and the He II forest (Miralda-Escudé J.), **262**, 273
- Evidence for structure in the H I column density distribution of QSO absorbers (Petitjean P., Webb J.K., Rauch M., Carswell R.F., Lanzetta K.), **262**, 499
- Absorption spectra of Q 0000–263 and 1442 + 101 (Frye B.L., Bechtold J., Moustakas L.A., Dobrzański A.), **263**, 575
- The distribution of minihaloes in cold dark matter cosmogony (Mo H.J., Miralda-Escudé J., Rees M.J.), **264**, 705
- On the radio properties of broad-absorption-line QSOs (de Kool M.), **265**, L17
- Quasars: emission lines**
- The broad-line regions of active galaxies (Cassidy I., Raine D.J.), **260**, 385
- Hydrogen molecules in quasar broad-line regions (Crossas M., Weisheit J.C.), **262**, 359
- Response functions as diagnostics of the broad-line region in active galactic nuclei (Goad M.R., O'Brien P.T., Gondhalekar P.M.), **263**, 149
- Optical spectroscopy of a complete sample of southern 2-Jy radio sources (Tadhunter C.N., Morganti R., di Serego Alighieri S., Fosbury R.A.E., Danziger I.J.), **263**, 999
- Quasars: general**
- A deep *ROSAT* survey – I. The QSO X-ray luminosity function (Boyle B.J., Griffiths R.E., Shanks T., Stewart G.C., Georgantopoulos I.), **260**, 49
- The quasar luminosity function from a variability-selected sample (Hawkins M.R.S., Véron P.), **260**, 202
- Radio variability in a complete sample of extragalactic sources at 151 MHz (Riley J.M.), **260**, 893
- The clustering of QSOs at low redshift (Boyle B.J., Mo H.J.), **260**, 925
- Cold dust around high-redshift quasars (Andreani P., La Franca F., Cristiani S.), **261**, L35
- The soft X-ray excesses of high-luminosity AGN (Saxton R.D., Turner M.J.L., Williams O.R., Stewart G.C., Ohashi T., Kii T.), **262**, 63
- Black hole remnants: soft X-ray flares from tidally disrupted stars (Sembay S., West R.G.), **262**, 141
- The modulation of radiation in an electron-positron plasma (Gangadhara R.T., Krishnan V., Shukla P.K.), **262**, 151
- On the He II Gunn-Peterson effect and the He II forest (Miralda-Escudé J.), **262**, 273
- Young ellipticals at high redshift (Terlevich R.J., Boyle B.J.), **262**, 491
- Further constraints on the warm absorber in MR2251–17.8 from *Ginga* and *EXOSAT* observations (Mineo T., Stewart G.C.), **262**, 817
- A search for intra-night optical variability in radio-quiet QSOs (Gopal-Krishna, Sagar R., Wiita P.J.), **262**, 963
- Evidence against the unified scheme for powerful radio galaxies and quasars (Singal A.K.), **262**, L27
- Cosmic evolution and luminosity dependence of the physical sizes of powerful radio galaxies and quasars (Singal A.K.), **263**, 139
- The formation of nuclei in newly formed galaxies and the evolution of the quasar population (Haehnelt M.G., Rees M.J.), **263**, 168
- Optical variability of faint quasars (Cimatti A., Zamorani G., Marano B.), **263**, 236
- The radio and optical properties of the $z < 0.5$ BQS quasars (Miller P., Rawlings S., Saunders R.), **263**, 425
- The radio-loud fraction of QSOs and its dependence on magnitude and redshift (Padovani P.), **263**, 461
- Thermal dust emission from quasars – I. Submillimetre spectral indices of radio-quiet quasars (Hughes D.H., Robson E.I., Dunlop J.S., Gear W.K.), **263**, 607
- On re-acceleration, pairs and the high-energy spectrum of AGN and Galactic black hole candidates (Ghisellini G., Haardt F., Fabian A.C.), **263**, L9
- VLA observations of a complete sample of core-dominated radio sources (Murphy D.W., Browne I.W.A., Perley R.A.), **264**, 298
- Infrared imaging of the host galaxies of radio-loud and radio-quiet quasars (Dunlop J.S., Taylor G.L., Hughes D.H., Robson E.I.), **264**, 455
- The environments of optically selected QSOs at $0.9 < z < 1.5$ (Boyle B.J., Couch W.J.), **264**, 604
- X-ray beaming in radio quasars (Kembhavi A.), **264**, 683
- A deep *ROSAT* survey – III. Deep radio observations of a selected field (Boyle B.J., Staveley-Smith L., Stewart G.C., Georgantopoulos I., Shanks T., Griffiths R.E.), **265**, 501
- High-redshift quasars and alternative spectra for primeval density fluctuations (Haehnelt M.G.), **265**, 727
- Quasars: individual: 3C 273**
- The infrared–millimetre–centimetre flaring behaviour of the quasar 3C 273 (Robson E.I., Litchfield S.J., Gear W.K., Hughes D.H., Sandell G., Courvoisier T.J.-L., Paltani S., Valtaoja E., Teräsraanta H., Tornikoski M., Steppe H., Wright M.C.H.), **262**, 249
- Quasars: individual: 0000–263**
- Absorption spectra of Q 0000–263 and 1442 + 101 (Frye B.L., Bechtold J., Moustakas L.A., Dobrzański A.), **263**, 575
- Quasars: individual: 1442 + 101**
- Absorption spectra of Q 0000–263 and 1442 + 101 (Frye B.L., Bechtold J., Moustakas L.A., Dobrzański A.), **263**, 575
- Quasars: individual: HS 1700 + 6416**
- The Lyman α forest towards the $z = 2.72$ QSO HS 1700 + 6416 (Sanz J.L., Clavel J., Naylor T., Wamsteker W.), **260**, 468
- Quasars: individual: QSO 2206–199**
- A re-analysis of the spectrum of QSO 2206–199 (Rauch M., Carswell R.F., Webb J.K., Weymann R.J.), **260**, 589
- Quasars: individual: IZw 1**
- Thermal dust emission from quasars – I. Submillimetre spectral indices of radio-quiet quasars (Hughes D.H., Robson E.I., Dunlop J.S., Gear W.K.), **263**, 607
- Quasars: individual: Mrk 1014**
- Thermal dust emission from quasars – I. Submillimetre spectral indices of radio-quiet quasars (Hughes D.H., Robson E.I., Dunlop J.S., Gear W.K.), **263**, 607
- Seyfert**
- The broad-band X-ray spectral variability of Mrk 841 (George I.M., Nandra K., Fabian A.C., Turner T.J., Done C., Day C.S.R.), **260**, 111
- A *ROSAT* observation of NGC 5548 (Nandra K., Fabian A.C., George I.M., Branduardi-Raymont G., Lawrence A., Mason K.O., M'Hardy I.M., Pounds K.A., Stewart G.C., Ward M.J., Warwick R.S.), **260**, 504
- MBG 02223–1922: a newly identified luminous Seyfert galaxy (Coziol R., Peña M., Demers S., Torres-Peimbert S.), **261**, 170
- Further probing of the X-ray source in NGC 4151: new constraints on the nuclear geometry (Yaqoob T., Warwick R.S., Makino F., Otani C., Sokoloski J.L., Bond I.A., Yamauchi M.), **262**, 435
- Corrigendum: On the origin of the radio emission in *IRAS* galaxies with high and ultrahigh luminosity: the starburst–AGN controversy (Colina L., Pérez-Olea D.), **262**, 543
- Transfer function analysis of ultraviolet observations of NGC 5548 (Koen C.), **262**, 823
- The short-term disappearance of the broad-line region in NGC 5548: implications for the dusty torus model (Loska Z., Czerny B., Szczepański R.), **262**, L31
- Unified theories of active galactic nuclei: the hard X-ray spectrum of NGC 1068 (Smith D.A., Done C., Pounds K.A.), **263**, 54
- Spectroscopic observations of Arp–Madore interacting galaxies – II. Galaxies with tails, loops of material or debris (Sekiguchi K., Wolstencroft R.D.), **263**, 349
- The radio nucleus of NGC 4151 at 5 and 8 GHz (Pedlar A., Kukula M.J., Longley D.P.T., Muxlow T.W.B., Axon D.J., Baum S., O'Dea C., Unger S.W.), **263**, 471
- CCD imaging of Seyfert galaxies: deconvolution of the nuclear and stellar components (Kotilainen J.K., Ward M.J., Williger G.M.), **263**, 655
- Multigrain dust cloud models of starburst and Seyfert galaxies (Rowan-Robinson M., Efstathiou A.), **263**, 675

- On re-acceleration, pairs and the high-energy spectrum of AGN and Galactic black hole candidates (Ghisellini G., Haardt F., Fabian A.C.), **263**, L9
- High-resolution radio observations of Markarian 3 (Kukula M.J., Ghosh T., Pedlar A., Schilizzi R.T., Miley G.K., de Bruyn A.G., Saikia D.J.), **264**, 893
- Radiative reprocessing by blobs immersed in the X-ray-emitting regions of AGN (Bond I.A., Matsuoka M.), **265**, 619
- ROSAT* PSPC observations of NGC 7469 and Ark 120 (Brandt W.N., Fabian A.C., Nandra K., Tsuruta S.), **265**, 996
- Spiral**
- Selection effects or high opacity? Understanding the surface brightness distribution of inclined disc galaxies (Davies J.I., Phillips S., Boyce P.J., Disney M.J.), **260**, 491
- The mass function of spiral galaxy haloes (Ashman K.M., Salucci P., Persic M.), **260**, 610
- The kinematics of face-on disc galaxies, and the nature of the Galactic H I layer (Merrifield M.R.), **261**, 233
- Magnetic fields in late-type galaxies (Fitt A.J., Alexander P.), **261**, 445
- Angle variables for numerically fitted orbital tori (Binney J., Kumar S.), **261**, 584
- The photometric properties of 'box/peanut' galactic bulges (Shaw M.), **261**, 718
- The co-existence of spiral structure and abundance gradients (Edmunds M.G., Roy J.-R.), **261**, L17
- Dark matter, not magnetism (Persic M., Salucci P.), **261**, L21
- The intrinsic shapes of galactic discs (Fasano G., Amico P., Bertola F., Vio R., Zeilinger W.W.), **262**, 109
- A physical distance indicator for spiral galaxies and the determination of H_0 (Salucci P., Frenk C.S., Persic M.), **262**, 392
- On the formation of spiral structure in gaseous discs through tidal interaction - II. Retrograde encounters (Sørensen S.-A.), **263**, 1
- The evolution of faint radio sources (Rowan-Robinson M., Benn C.R., Lawrence A., McMahon R.G., Broadhurst T.J.), **263**, 123
- Tully-Fisher distances to M31-like galaxies in the Coma cluster (Rood H.J., Williams B.A.), **263**, 211
- Biorthogonal potential-density sets for flat discs (Qian E.E.), **263**, 394
- Simple discs with flat rotation curves (Evans N.W., Collett J.L.), **264**, 353
- Further analysis of a 'Complete Sample' in the Virgo Supercluster of galaxies (Vallée J.P.), **264**, 665
- Galactic dynamos and density wave theory - II. An alternative treatment for strong non-axisymmetry (Subramanian K., Mestel L.), **265**, 649
- Starburst**
- New detections of Ly α emission in young galaxies (Terlevich E., Diaz A.I., Terlevich R., García Vargas M.L.), **260**, 3
- Optical, infrared, radio and polarization imaging of the high-redshift galaxy IRAS F10214 + 4724 (Lawrence A., Rowan-Robinson M., Oliver S., Taylor A., McMahon R.G., Broadhurst T., Scarrott S.M., Rolph C.D., Draper P.W., Ellis R.S., Tadhunter C., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Efstathiou G.P., Saunders W.S.), **260**, 28
- The ultraviolet-to-radio continuum of the ultraluminous galaxy IRAS F10214 + 4724 (Rowan-Robinson M., Efstathiou A., Lawrence A., Oliver S., Taylor A., Broadhurst T.J., McMahon R.G., Benn C.R., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Saunders W.S., Clements D.L., Ellis R.S., Robson I.), **261**, 513
- Abundances in the starburst galaxy II Zw 40 (Walsh J.R., Roy J.-R.), **262**, 27
- Young ellipticals at high redshift (Terlevich R.J., Boyle B.J.), **262**, 491
- Corrigendum: On the origin of the radio emission in *IRAS* galaxies with high and ultrahigh luminosity: the starburst-AGN controversy (Colina L., Pérez-Olea D.), **262**, 543
- Extended H α emission from IRAS F10214 + 4724: starburst or active galactic nucleus? (Clements D.L., van der Werf P.P., Krabbe A., Blietz M., Genzel R., Ward M.J.), **262**, L23
- Spectroscopy of faint radio sources: the nature of the sub-mJy radio-source population (Benn C.R., Rowan-Robinson M., McMahon R.G., Broadhurst T.J., Lawrence A.), **263**, 98
- The evolution of faint radio sources (Rowan-Robinson M., Benn C.R., Lawrence A., McMahon R.G., Broadhurst T.J.), **263**, 123
- Spectroscopic observations of Arp-Madore interacting galaxies - II. Galaxies with tails, loops of material or debris (Sekiguchi K., Wolstencroft R.D.), **263**, 349
- Multigrain dust cloud models of starburst and Seyfert galaxies (Rowan-Robinson M., Efstathiou A.), **263**, 675
- Strong limits on the 20- μ m emission from the high-redshift galaxy IRAS 10214 + 4724 (Telesco C.M.), **263**, L37
- ROSAT* PSPC observations of the extragalactic H II region NGC 5408 (Fabian A.C., Ward M.J.), **263**, L51
- TAURUS and CCD observations of Arp 90 (Lewis J.R., Bowen D.V.), **264**, 818
- High-resolution radio observations of Markarian 3 (Kukula M.J., Ghosh T., Pedlar A., Schilizzi R.T., Miley G.K., de Bruyn A.G., Saikia D.J.), **264**, 893
- Imaging polarimetry of the starburst galaxy NGC 1808: another M82? (Scarrott S.M., Draper P.W., Stockdale D.P., Wolstencroft R.D.), **264**, L7
- Star clusters**
- CCD photometry of two young Large Magellanic Cloud clusters: NGC 2004 and 2100 (Balona L.A., Jerzykiewicz M.), **260**, 782
- The young Large Magellanic Cloud clusters NGC 2004 and 2100 and their short-period variables (Balona L.A.), **260**, 795
- Globular cluster systems formed in galaxy mergers (Zepf S.E., Ashman K.M.), **264**, 611
- Biased globular cluster formation (West M.J.), **265**, 755
- Stellar content**
- Optical and near-IR spectrophotometry of the galaxy NGC 3310 (Pastoriza M.G., Dottori H.A., Terlevich E., Terlevich R., Diaz A.I.), **260**, 177
- Deep CCD photometry of the dwarf spheroidal galaxy Leo II (Demers S., Irwin M.J.), **261**, 657
- The photometric properties of 'box/peanut' galactic bulges (Shaw M.), **261**, 718
- Line-strength gradients in elliptical galaxies (Davies R.L., Sadler E.M., Peletier R.F.), **262**, 650
- CCD imaging of Seyfert galaxies: deconvolution of the nuclear and stellar components (Kotilainen J.K., Ward M.J., Williger G.M.), **263**, 655
- Luminosity dependence of optical activity and alignments in radio galaxies (Dunlop J.S., Peacock J.A.), **263**, 936
- Thresholds and the chemical evolution of galactic discs (Chamcham K., Pitts E., Taylor R.J.), **263**, 967
- A new, age-independent distance indicator for elliptical galaxies (Guzmán R., Lucey J.R.), **263**, L47
- On the nature of the blue light in central cluster galaxies (Crawford C.S., Fabian A.C.), **265**, 431
- Structure**
- Simple galaxy models with massive haloes (Evans N.W.), **260**, 191
- Equilibria of rapidly rotating polytropes (Balmforth N.J., Howard L.N., Spiegel E.A.), **260**, 253
- Three-integral models of oblate elliptical galaxies (Dehnen W., Gerhard O.E.), **261**, 311
- Can isophotal shape discriminate between possible origins of elliptical galaxies? (Governato F., Reduzzi L., Rampazzo R.), **261**, 379
- The photometric properties of 'box/peanut' galactic bulges (Shaw M.), **261**, 718
- Spokes in ring galaxies (Hernquist L., Weil M.L.), **261**, 804
- The density structure of a galaxy influenced by a massive companion (Namboodiri P.M.S., Kochhar R.K.), **261**, 855
- The co-existence of spiral structure and abundance gradients (Edmunds M.G., Roy J.-R.), **261**, L17
- The intrinsic shapes of galactic discs (Fasano G., Amico P., Bertola F., Vio R., Zeilinger W.W.), **262**, 109
- On the formation of spiral structure in gaseous discs through tidal interaction - II. Retrograde encounters (Sørensen S.-A.), **263**, 1
- Line-of-sight velocity profiles in spherical galaxies: breaking the degeneracy between anisotropy and mass (Gerhard O.E.), **265**, 213
- Statistical mechanics of galaxies (Hjorth J., Madsen J.), **265**, 237
- A family of potential-density pairs for spherical galaxies and bulges (Dehnen W.), **265**, 250

- Galactic dynamos and density wave theory – II. An alternative treatment for strong non-axisymmetry (Subramanian K., Mestel L.), 265, 649
- A non-parametric and scale-independent method for cluster analysis – I. The univariate case (Pisani A.), 265, 706
- The fundamental relations of elliptical galaxies (Guzmán R., Lucey J.R., Bower R.G.), 265, 731
- On the shape of the light profiles of early-type galaxies (Caon N., Capaccioli M., D'Onofrio M.), 265, 1013

Cosmology

Cosmic microwave background

- Physical conditions in the intergalactic medium (Subrahmanyan R., Saripalli L.), 260, 908
- An upper limit on the fine-scale anisotropy of the cosmic background radiation at 800 μm (Church S.E., Lasenby A.N., Hills R.E.), 261, 705
- On the agreement between *COBE* anisotropy results and specific predictions from clusters of galaxies (Scaramella R.), 262, L43
- A search for arcmin-scale anisotropy in the cosmic microwave background (Subrahmanyan R., Ekers R.D., Sinclair M., Silk J.), 263, 416
- The imprints of the Great Attractor and the Virgo cluster on the microwave background (Sáez D., Arnau J.V., Fullana M.J.), 263, 681
- COBE* DMR data and the primordial index of density fluctuations (Scaramella R., Vittorio N.), 263, L17
- Spherical harmonic analysis of the 2-Jy *IRAS* galaxy redshift survey (Scharf C.A., Lahav O.), 264, 439
- Long distance correlations in the galaxy distribution and the nature of dark matter (Jørgensen H.E., Kotok E., Naselsky P., Novikov I.), 265, 261
- Limits on the primordial fluctuation spectrum: void sizes and anisotropy of the cosmic microwave background radiation (Piran T., Lecar M., Goldwirth D.S., da Costa L.N., Blumenthal G.R.), 265, 681
- Detection of the Sunyaev-Zel'dovich effect in Abell 773 (Grainge K., Jones M., Pooley G., Saunders R., Edge A.), 265, L57

Cosmology: miscellaneous

- Detailed structure of expanding photoionized Ly α clouds (Petitjean P., Bergeron J., Carswell R.F., Puget J.L.), 260, 67
- Cosmic evolution and luminosity dependence of the physical sizes of powerful radio galaxies and quasars (Singal A.K.), 263, 139
- Self-similar collapse of flat systems (Boily C., Lynden-Bell D.), 264, 1003
- Galaxy clustering, morphology and luminosity (Iovino A., Giovanelli R., Haynes M., Chincarini G., Guzzo L.), 265, 21

Cosmology: observations

- A deep *ROSAT* survey – I. The QSO X-ray luminosity function (Boyle B.J., Griffith R.E., Shanks T., Stewart G.C., Georgantopoulos I.), 260, 49
- The quasar luminosity function from a variability-selected sample (Hawkins M.R.S., Véron P.), 260, 202
- What is the temperature of the Ly α clouds at $z \sim 2$? (Stanek K.Z.), 261, 52
- Analytic results for the gravitational lens statistics of singular isothermal spheres in general cosmologies (Kochanek C.S.), 261, 453
- Galaxy groups: abundance by luminosity and by velocity dispersion (Moore B., Frenk C.S., White S.D.M.), 261, 827
- Do galactic potential wells depend on their large-scale environment? (Mo H.J., Lahav O.), 261, 895
- A possible forest of emission lines from protogalaxies (Nath B.B., Eichler D.), 261, L25
- Gravitational lens frequencies and the cosmological constant: an examination of amplification bias and galaxy formation redshift (Sasaki S., Takahara F.), 262, 681
- Evidence for systematic evolution in the properties of galaxies in distant clusters (Aragón-Salamanca A., Ellis R.S., Couch W.J., Carter D.), 262, 764
- Optical variability of faint quasars (Cimatti A., Zamorani G., Marano B.), 263, 236

- The angular correlation function of galaxies with $B \sim 25$ mag (Roche N., Shanks T., Metcalfe N., Fong R.), 263, 360
- A search for arcmin-scale anisotropy in the cosmic microwave background (Subrahmanyan R., Ekers R.D., Sinclair M., Silk J.), 263, 416
- A complete galaxy redshift survey – V. Infrared luminosity functions for field galaxies (Mobasher B., Sharples R.M., Ellis R.S.), 263, 560
- The nature of star formation in lensed galaxies at high redshift (Smail I., Ellis R.S., Aragón-Salamanca A., Soucail G., Mellier Y., Giraud E.), 263, 628
- Spherical harmonic analysis of the 2-Jy *IRAS* galaxy redshift survey (Scharf C.A., Lahav O.), 264, 439
- Gravitational waves from mini-creation events (Das Gupta P., Narlikar J.V.), 264, 489
- Submillimetre cosmology (Blain A.W., Longair M.S.), 264, 509
- The distribution of minihubbles in cold dark matter cosmogony (Mo H.J., Miralda-Escudé J., Rees M.J.), 264, 705
- On the pairwise velocity dispersion of galaxies (Mo H.J., Jing Y.P., Börner G.), 264, 825
- Optical galaxies within 8000 km s^{-1} – I. The density field (Hudson M.J.), 265, 43
- Confrontation of the cold plus hot dark matter model with observational data (Pogosyan D.Yu., Starobinsky A.A.), 265, 507
- Millimetre background radiation and galaxy formation (Blain A.W., Longair M.S.), 265, L21

Cosmology: theory

- Testing approximations for non-linear gravitational clustering (Coles P., Melott A.L., Shandarin S.F.), 260, 765
- Analytic results for the gravitational lens statistics of singular isothermal spheres in general cosmologies (Kochanek C.S.), 261, 453
- Galaxy groups: abundance by luminosity and by velocity dispersion (Moore B., Frenk C.S., White S.D.M.), 261, 827
- Correction to geometric extension through Schwarzschild $r=0$ (Lynden-Bell D., Katz J., Hellaby C.), 262, 325
- Merger rates in hierarchical models of galaxy formation (Lacey C., Cole S.), 262, 627
- Growth of large-scale structure with a cosmological constant (Barrow J.D., Saich P.), 262, 717
- Voids in gravitational instability scenarios – I. Global density and velocity fields in an Einstein-de Sitter universe (van de Weygaert R., van Kampen E.), 263, 481
- The imprints of the Great Attractor and the Virgo cluster on the microwave background (Sáez D., Arnau J.V., Fullana M.J.), 263, 681
- The richness dependence of cluster correlations (Mann R.G., Heavens A.F., Peacock J.A.), 263, 798
- Extragalactic light fluctuations in the decaying dark matter hypothesis (Scott D.), 263, 903
- Dynamical effects of the cosmological constant: the evolution of aspherical structures (Lemson G.), 263, 913
- Lagrangian theory of gravitational instability of Friedman-Lemaître cosmologies – second-order approach: an improved model for non-linear clustering (Buchert T., Ehlers J.), 264, 375
- Gravitational waves from mini-creation events (Das Gupta P., Narlikar J.V.), 264, 489
- Did cosmic rays reionize the intergalactic medium? (Nath B.B., Biermann P.L.), 265, 241
- Long distance correlations in the galaxy distribution and the nature of dark matter (Jørgensen H.E., Kotok E., Naselsky P., Novikov I.), 265, 261
- Simulations of dissipative galaxy formation in hierarchically clustering universes – I. Tests of the code (Navarro J.F., White S.D.M.), 265, 271
- Confrontation of the cold plus hot dark matter model with observational data (Pogosyan D.Yu., Starobinsky A.A.), 265, 507
- Galaxy formation and the peaks formalism (Katz N., Quinn T., Gelb J.M.), 265, 689
- High-redshift quasars and alternative spectra for primeval density fluctuations (Haehnelt M.G.), 265, 727
- Biased globular cluster formation (West M.J.), 265, 755

Dark matter

- The character of internal motions in galaxy triplets (Kiseleva L., Orlov V.), **260**, 475
Topology in two dimensions – IV. CDM models with non-Gaussian initial conditions (Coles P., Moscardini L., Plionis M., Lucchin F., Matarrese S., Messina A.), **260**, 572
The mass function of spiral galaxy haloes (Ashman K.M., Salucci P., Persic M.), **260**, 610
Tests for the minihalo model of the Lyman alpha forest (Miralda-Escudé J., Rees M.J.), **260**, 617
The merging history of dark matter haloes in a hierarchical universe (Kauffmann G., White S.D.M.), **261**, 921
X-ray archaeology in the Coma cluster (White S.D.M., Briel U.G., Henry J.P.), **261**, 18
Dark matter, not magnetism (Persic M., Salucci P.), **261**, L21
A physical distance indicator for spiral galaxies and the determination of H_0 (Salucci P., Frenk C.S., Persic M.), **262**, 392
Merger rates in hierarchical models of galaxy formation (Lacey C., Cole S.), **262**, 627
The amplitude of mass fluctuations in the Universe (White S.D.M., Efstathiou G., Frenk C.S.), **262**, 1023
Galaxy formation with a local bias (Cole S.), **262**, 1065
The formation of nuclei in newly formed galaxies and the evolution of the quasar population (Haehnelt M.G., Rees M.J.), **263**, 168
Extragalactic light fluctuations in the decaying dark matter hypothesis (Scott D.), **263**, 903
The formation and evolution of galaxies within merging dark matter haloes (Kauffmann G., White S.D.M., Guideroni B.), **264**, 201
Spherical harmonic analysis of the 2-Jy *IRAS* galaxy redshift survey (Scharf C.A., Lahav O.), **264**, 439
Mergers of collisionless systems (Pearce F.R., Thomas P.A., Couchman H.M.P.), **264**, 497
The distribution of minihaloes in cold dark matter cosmogony (Mo H.J., Miralda-Escudé J., Rees M.J.), **264**, 705
Skewness as a test of non-Gaussian primordial density fluctuations (Coles P., Moscardini L., Lucchin F., Matarrese S., Messina A.), **264**, 749
On the pairwise velocity dispersion of galaxies (Mo H.J., Jing Y.P., Börner G.), **264**, 825
Optical galaxies within 8000 km s⁻¹ – I. The density field (Hudson M.J.), **265**, 43
Optical galaxies within 8000 km s⁻¹ – II. The peculiar velocity of the Local Group (Hudson M.J.), **265**, 72
Neutral hydrogen at high redshifts as a probe of structure formation – I. Post-*CMB* analysis of CDM and HDM models (Subramanian K., Padmanabhan T.), **265**, 101
The three-dimensional power spectrum measured from the APM Galaxy Survey – I. Use of the angular correlation function (Baugh C.M., Efstathiou G.), **265**, 145
Long distance correlations in the galaxy distribution and the nature of dark matter (Jørgensen H.E., Kotok E., Naselsky P., Novikov I.), **265**, 261
Simulations of dissipative galaxy formation in hierarchically clustering universes – I. Tests of the code (Navarro J.F., White S.D.M.), **265**, 271
Inflation and mixed dark matter models (Liddle A.R., Lyth D.H.), **265**, 379
Confrontation of the cold plus hot dark matter model with observational data (Pogosyan D.Yu., Starobinsky A.A.), **265**, 507
High-redshift quasars and alternative spectra for primeval density fluctuations (Haehnelt M.G.), **265**, 727

Diffuse radiation

- A deep *ROSAT* survey – I. The QSO X-ray luminosity function (Boyle B.J., Griffiths R.E., Shanks T., Stewart G.C., Georganopoulos I.), **260**, 49
The subdegree angular structure of the X-ray sky as seen by the *Ginga* satellite (Carrera F.J., Barcons X., Butcher J.A., Fabian A.C., Stewart G.C., Toffolatti L., Warwick R.S., Hayashida K., Inoue H., Kondo H.), **260**, 376
Radio-loud AGN and the extragalactic gamma-ray background (Padovani P., Ghisellini G., Fabian A.C., Celotti A.), **260**, L21
A deep *ROSAT* survey – II. Observations of the isotropy of the 1–2 keV X-ray background (Georganopoulos I., Stewart G.C., Shanks T., Griffiths R.E., Boyle B.J.), **262**, 619

Extragalactic light fluctuations in the decaying dark matter hypothesis (Scott D.), **263**, 903

- Hard and soft X-ray selected active galactic nuclei: two distinct populations? (Franceschini A., Martín-Mirónes J.M., Danese L., De Zotti G.), **264**, 35
Electron-photon cascading of very high-energy gamma-rays in the infrared background (Protheroe R.J., Stanev T.), **264**, 191
Gravitational waves from mini-creation events (Das Gupta P., Narlikar J.V.), **264**, 489
Did cosmic rays reionize the intergalactic medium? (Nath B.B., Biermann P.L.), **265**, 241
High-redshift quasars and alternative spectra for primeval density fluctuations (Haehnelt M.G.), **265**, 727

Distance scale

- A physical distance indicator for spiral galaxies and the determination of H_0 (Salucci P., Frenk C.S., Persic M.), **262**, 392
Tully-Fisher distances to M31-like galaxies in the Coma cluster (Rood H.J., Williams B.A.), **263**, 211
A surface brightness correction to the $D_n - \sigma$ relation (van Albada T.S., Bertin G., Stiavelli M.), **265**, 627

Early Universe

- Topology in two dimensions – IV. CDM models with non-Gaussian initial conditions (Coles P., Moscardini L., Plionis M., Lucchin F., Matarrese S., Messina A.), **260**, 572
COBE DMR data and the primordial index of density fluctuations (Scaramella R., Vittorio N.), **263**, L17
Skewness as a test of non-Gaussian primordial density fluctuations (Coles P., Moscardini L., Lucchin F., Matarrese S., Messina A.), **264**, 749
Inflation and mixed dark matter models (Liddle A.R., Lyth D.H.), **265**, 379

Gravitational lensing

- Tests for the minihalo model of the Lyman alpha forest (Miralda-Escudé J., Rees M.J.), **260**, 617
B0218 + 35.7: a gravitationally lensed system with the smallest separation (Patnaik A.R., Browne I.W.A., King L.J., Muxlow T.W.B., Walsh D., Wilkinson P.N.), **261**, 435
Analytic results for the gravitational lens statistics of singular isothermal spheres in general cosmologies (Kochanek C.S.), **261**, 453
Microlensing light curves: a new and efficient numerical method (Lewis G.F., Miralda-Escudé J., Richardson D.C., Wambsganss J.), **261**, 647
Statistics of lensing by clusters of galaxies – I. Giant arcs (Wu X.-P., Hammer F.), **262**, 187
Gravitational lens frequencies and the cosmological constant: an examination of amplification bias and galaxy formation redshift (Sasaki S., Takahara F.), **262**, 681
The nature of star formation in lensed galaxies at high redshift (Smail I., Ellis R.S., Aragón-Salamanca A., Soucail G., Mellier Y., Géraud E.), **263**, 628
The redshift of the lensing galaxy in the gravitationally lensed system B0218 + 35.7 (Browne I.W.A., Patnaik A.R., Walsh D., Wilkinson P.N.), **263**, L32
The environments of optically selected QSOs at $0.9 < z < 1.5$ (Boyle B.J., Couch W.J.), **264**, 604

Large-scale structure of Universe

- The cross-correlation of *IRAS* galaxies with Abell clusters and radio galaxies (Mo H.J., Peacock J.A., Xia X.Y.), **260**, 121
Evolution of galaxy clustering: new data on the angular correlation function of faint galaxies (Couch W.J., Juricic J.S., Boyle B.J.), **260**, 241
Wavelet analysis of the multifractal character of the galaxy distribution (Martínez V.J., Paredes S., Saar E.), **260**, 365
The subdegree angular structure of the X-ray sky as seen by the *Ginga* satellite (Carrera F.J., Barcons X., Butcher J.A., Fabian A.C., Stewart G.C., Toffolatti L., Warwick R.S., Hayashida K., Inoue H., Kondo H.), **260**, 376
The multifractal behaviour of hierarchical density distributions (Borgani S.), **260**, 537
Topology in two dimensions – III. Modelling projected galaxy catalogues (Davies A., Coles P.), **260**, 553
Topology in two dimensions – IV. CDM models with non-Gaussian initial conditions (Coles P., Moscardini L., Plionis M., Lucchin F., Matarrese S., Messina A.), **260**, 572

- Power spectrum of the matter distribution in the Universe on large scales (Einasto J., Gramann M., Saar E., Tago E.), **260**, 705
- Testing approximations for non-linear gravitational clustering (Coles P., Melott A.L., Shandarin S.F.), **260**, 765
- The clustering of QSOs at low redshift (Boyle B.J., Mo H.J.), **260**, 925
- The merging history of dark matter haloes in a hierarchical universe (Kauffmann G., White S.D.M.), **261**, 921
- X-ray archaeology in the Coma cluster (White S.D.M., Briel U.G., Henry J.P.), **261**, 18
- Connection of large-scale structures of the galaxy distribution behind the southern Milky Way (Yamada T., Takata T., Djameluddin T., Tomita A., Aoki K., Takeda A., Saito M.), **262**, 79
- The QDOT and cluster dipoles: evidence for a low- Ω_0 Universe? (Plionis M., Coles P., Catelan P.), **262**, 465
- The three-point correlation function of rich clusters: the reliability of determinations from small samples (Davies A., Coles P.), **262**, 591
- Growth of large-scale structure with a cosmological constant (Barrow J.D., Saich P.), **262**, 717
- The amplitude of mass fluctuations in the Universe (White S.D.M., Efstathiou G., Frenk C.S.), **262**, 1023
- Galaxy formation with a local bias (Coles P.), **262**, 1065
- On the agreement between *COBE* anisotropy results and specific predictions from clusters of galaxies (Scaramella R.), **262**, L43
- Spectroscopy of faint radio sources: the nature of the sub-mJy radio-source population (Benn C.R., Rowan-Robinson M., McMahon R.G., Broadhurst T.J., Lawrence A.), **263**, 98
- The angular correlation function of galaxies with $B \sim 25$ mag (Roche N., Shanks T., Metcalfe N., Fong R.), **263**, 360
- Voids in gravitational instability scenarios – I. Global density and velocity fields in an Einstein-de Sitter universe (van de Weygaert R., van Kampen E.), **263**, 481
- The imprints of the Great Attractor and the Virgo cluster on the microwave background (Sáez D., Arnau J.V., Fullana M.J.), **263**, 681
- The richness dependence of cluster correlations (Mann R.G., Heavens A.F., Peacock J.A.), **263**, 798
- Extragalactic light fluctuations in the decaying dark matter hypothesis (Scott D.), **263**, 903
- Dynamical effects of the cosmological constant: the evolution of aspherical structures (Lemonson G.), **263**, 913
- The fundamental plane of galaxy clusters (Schaeffer R., Maurogordato S., Cappi A., Bernardeau F.), **263**, L21
- Self-avoiding random walks as a probe of large-scale structure in the Universe (Baugh C.), **264**, 87
- Clustering of galaxies by the α -effect (Krishan V.), **264**, 257
- Three-point correlations of peaks in cosmological density fields (Coles P., Davies A.), **264**, 261
- Lagrangian theory of gravitational instability of Friedman-Lemaître cosmologies – second-order approach: an improved model for non-linear clustering (Buchert T., Ehlers J.), **264**, 375
- Spherical harmonic analysis of the 2-Jy *IRAS* galaxy redshift survey (Scharf C.A., Lahav O.), **264**, 439
- Relativistic hydrodynamics and gravitational instability revisited (Jackson J.C.), **264**, 729
- Skewness as a test of non-Gaussian primordial density fluctuations (Coles P., Moscardini L., Lucchin F., Matarrese S., Messina A.), **264**, 749
- On the pairwise velocity dispersion of galaxies (Mo H.J., Jing Y.P., Börner G.), **264**, 825
- Optical galaxies within 8000 km s^{-1} – I. The density field (Hudson M.J.), **265**, 43
- Optical galaxies within 8000 km s^{-1} – II. The peculiar velocity of the Local Group (Hudson M.J.), **265**, 72
- Neutral hydrogen at high redshifts as a probe of structure formation – I. Post-*Cobe* analysis of CDM and HDM models (Subramanian K., Padmanabhan T.), **265**, 101
- The three-dimensional power spectrum measured from the APM Galaxy Survey – I. Use of the angular correlation function (Baugh C.M., Efstathiou G.), **265**, 145
- Long distance correlations in the galaxy distribution and the nature of dark matter (Jørgensen H.E., Kotok E., Naselsky P., Novikov I.), **265**, 261
- Inflation and mixed dark matter models (Liddle A.R., Lyth D.H.), **265**, 379
- Confrontation of the cold plus hot dark matter model with observational data (Pogosyan D.Yu., Starobinsky A.A.), **265**, 507
- Limits on the primordial fluctuation spectrum: void sizes and anisotropy of the cosmic microwave background radiation (Piran T., Lecar M., Goldwirth D.S., da Costa L.N., Blumenthal G.R.), **265**, 681
- Galaxy formation and the peaks formalism (Katz N., Quinn T., Gelb J.M.), **265**, 689
- High-redshift quasars and alternative spectra for primeval density fluctuations (Haehnelt M.G.), **265**, 727
- Reconstruction analysis – I. Redshift-space deprojection in the quasi-non-linear regime (Taylor A.N., Rowan-Robinson M.), **265**, 809
- The Edinburgh-Durham Southern Galaxy Catalogue – VI. The stability of $w(\theta)$ (Nichol R.C., Collins C.A.), **265**, 867
- The void probability function for flux-limited samples (Watson J.M., Rowan-Robinson M.), **265**, 1027
- ### Sources as a function of wavelength
- #### Gamma-rays: bursts
- A *ROSAT* Wide Field Camera search for XUV bursts (Owens A., Page C.G., Sembay S., Schaefer B.E.), **260**, L25
- Binary capture of small bodies by three-body interactions and impact on to compact objects (Pineault S., Duquet J.-R.), **261**, 246
- The suppression of pulsar and gamma-ray burst annihilation lines by magnetic photon splitting (Baring M.G.), **262**, 20
- Strange-pulsar evolution and soft γ -repeaters (Horvath J.E., Vucetic H., Benvenuto O.G.), **262**, 506
- Gamma-ray emission from the reignited magnetospheres of dead pulsars: a possible source of gamma-ray bursts (Cheng K.S., Ding K.Y.), **262**, 1037
- The Magellanic Clouds as the source of gamma-ray bursters (Fabian A.C., Podsiadlowski P.), **263**, 49
- Hydrodynamics of relativistic fireballs (Piran T., Shemi A., Narayan R.), **263**, 861
- A variable star in the vicinity of the soft γ -ray repeater 1806–20 (Irwin M., Zytkow A.N.), **263**, L1
- Gamma-ray bursts from blast waves around Galactic neutron stars (Begelman M.C., Mészáros P., Rees M.J.), **265**, L13
- Evidence for the Galactic origin of gamma-ray bursts (Quashnock J.M., Lamb D.Q.), **265**, L45
- On the Galactic distribution of gamma-ray bursts (Rutledge R.E., Lewin W.H.G.), **265**, L51
- Evidence that gamma-ray burst sources repeat (Quashnock J.M., Lamb D.Q.), **265**, L59
- Do gamma-ray burst sources repeat? (Narayan, R. Piran T.), **265**, L65
- #### Gamma-rays: observations
- Radio-loud AGN and the extragalactic gamma-ray background (Padovani P., Ghisellini G., Fabian A.C., Celotti A.), **260**, L21
- Geminga: origins of its X-ray and gamma-ray emission (Harding A.K., Ozerov L.M., Usov V.V.), **265**, 921
- #### Gamma-rays: theory
- Cygnus X-3 light-curve model in the TeV energy region (Moskalenko I.V., Karakula S., Tkaczyk W.), **260**, 681
- Interpretation of very high-energy gamma-rays from the direction of the Crab nebula (Bogovalov S.V., Kotov Yu.D.), **262**, 75
- Electron-photon cascading of very high-energy gamma-rays in the infrared background (Protheroe R.J., Stanev T.), **264**, 191
- #### Infrared: galaxies
- Optical, infrared, radio and polarization imaging of the high-redshift galaxy IRAS F10214 + 4724 (Lawrence A., Rowan-Robinson M., Oliver S., Taylor A., McMahon R.G., Broadhurst T., Scarrott S.M., Rolph C.D., Draper P.W., Ellis R.S., Tadhunter C., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Efstathiou G.P., Saunders W.S.), **260**, 28
- The cross-correlation of *IRAS* galaxies with Abell clusters and radio galaxies (Mo H.J., Peacock J.A., Xia X.Y.), **260**, 121

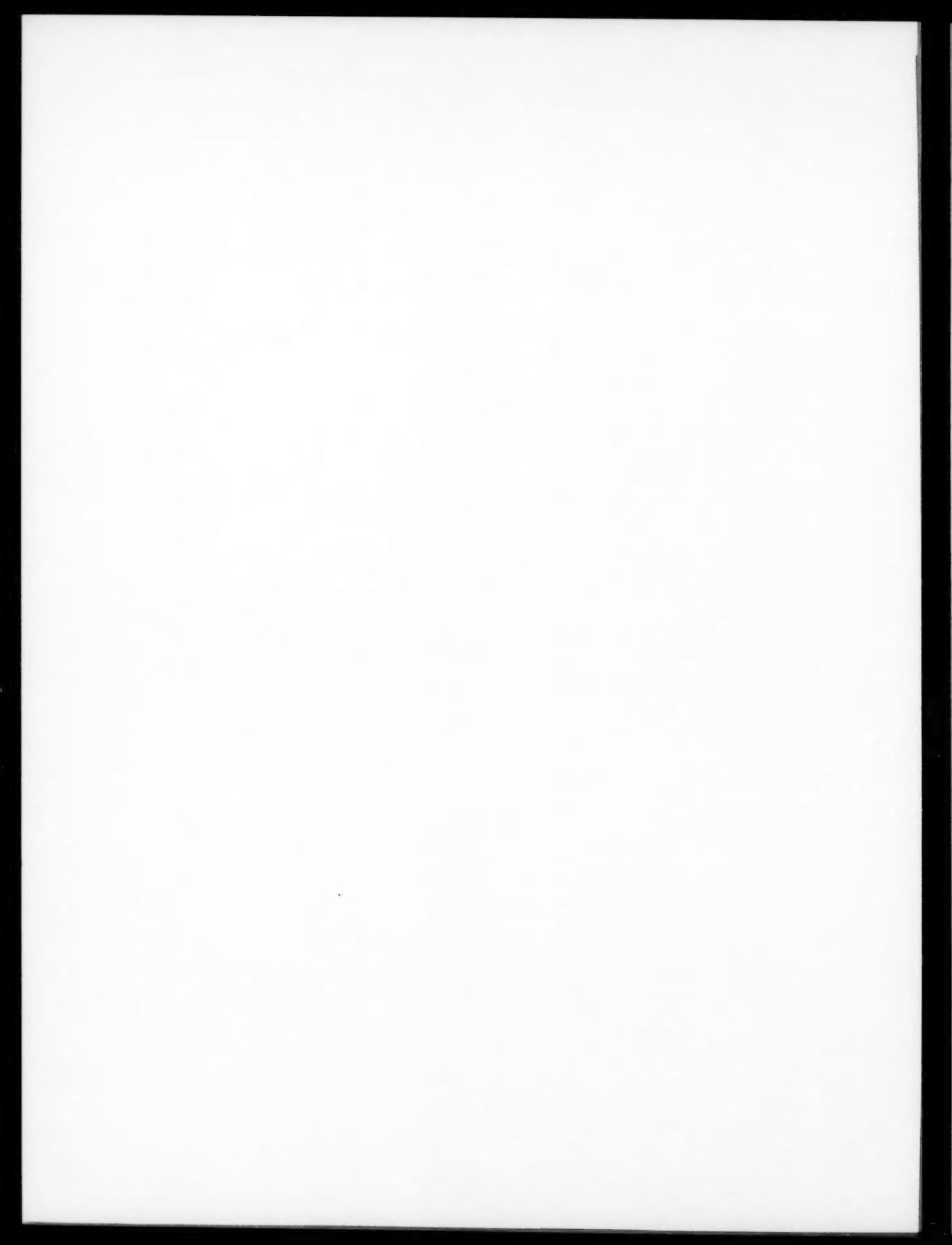
- Structure of NGC 5128 (Centaurus A) at submillimetre wavelengths (Hawarden T.G., Sandell G., Matthews H.E., Friberg P., Watt G.D., Smith P.A.), **260**, 844
- Spectropolarimetry of the ultraluminous infrared galaxy IRAS 110548–1131 (Young S., Hough J.H., Bailey J.A., Axon D.J., Ward M.J.), **260**, L1
- Dust radiation in active galactic nuclei – I. Spherical distribution (Łoska Z., Szczerba R., Czerny B.), **261**, 63
- Submillimetre observations of galaxies – I. First results (Clements D.L., Andrean P., Chase S.T.), **261**, 299
- The ultraviolet-to-radio continuum of the ultraluminous galaxy IRAS F10214 + 4724 (Rowan-Robinson M., Efstathiou A., Lawrence A., Oliver S., Taylor A., Broadhurst T.J., McMahon R.G., Benn C.R., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Saunders W.S., Clements D.L., Ellis R.S., Robson I.), **261**, 513
- The photometric properties of 'box/peanut' galactic bulges (Shaw M.), **261**, 718
- Connection of large-scale structures of the galaxy distribution behind the southern Milky Way (Yamada T., Takata T., Djameluddin T., Tomita A., Aoki K., Takeda A., Saitō M.), **262**, 79
- The infrared–millimetre–centimetre flaring behaviour of the quasar 3C 273 (Robson E.I., Litchfield S.J., Gear W.K., Hughes D.H., Sandell G., Courvoisier T.J.-L., Paltani S., Valtaoja E., Teräsraanta H., Tornikoski M., Steppe H., Wright M.C.H.), **262**, 249
- The QDOT and cluster dipoles: evidence for a low- Ω_0 Universe? (Plionis M., Coles P., Catelan P.), **262**, 465
- Corrigendum: On the origin of the radio emission in *IRAS* galaxies with high and ultrahigh luminosity: the starburst–AGN controversy (Colina L., Pérez-Olea D.), **262**, 543
- Evidence for systematic evolution in the properties of galaxies in distant clusters (Aragón-Salamanca A., Ellis R.S., Couch W.J., Carter D.), **262**, 764
- Extended H α emission from IRAS F10214 + 4724: starburst or active galactic nucleus? (Clements D.L., van der Werf P.P., Krabbe A., Blietz M., Genzel R., Ward M.J.), **262**, L23
- Interstellar chemistry and the tight far-infrared–radio correlation (Bettens R.P.A., Brown R.D., Cragg D.M., Dickinson C.J., Godfrey P.D.), **263**, 93
- A complete galaxy redshift survey – V. Infrared luminosity functions for field galaxies (Mobasher B., Sharples R.M., Ellis R.S.), **263**, 560
- Thermal dust emission from quasars – I. Submillimetre spectral indices of radio-quiet quasars (Hughes D.H., Robson E.I., Dunlop J.S., Gear W.K.), **263**, 607
- The nature of star formation in lensed galaxies at high redshift (Smail I., Ellis R.S., Aragón-Salamanca A., Soucail G., Mellier Y., Giraud E.), **263**, 628
- Multigrain dust cloud models of starburst and Seyfert galaxies (Rowan-Robinson M., Efstathiou A.), **263**, 675
- Luminosity dependence of optical activity and alignments in radio galaxies (Dunlop J.S., Peacock J.A.), **263**, 936
- Strong limits on the 20- μm emission from the high-redshift galaxy IRAS 10214 + 4724 (Telesco C.M.), **263**, L37
- Spherical harmonic analysis of the 2-Jy *IRAS* galaxy redshift survey (Scharf C.A., Lahav O.), **264**, 439
- Infrared imaging of the host galaxies of radio-loud and radio-quiet quasars (Dunlop J.S., Taylor G.L., Hughes D.H., Robson E.I.), **264**, 455
- Are there two populations of BL Lac objects? (Gear W.K.), **264**, 919
- The nature of the millimetre emission in NGC 4102, NGC 4418, NGC 6000 and Mrk 231 (Roche P.F., Chandler C.J.), **265**, 486
- Infrared: general**
- Grain mantles in the Taurus dark cloud (Smith R.G., Sellgren K., Brooke T.Y.), **263**, 749
- Extinction of olivine and pyroxene in the mid- and far-infrared (Koike C., Shibai H., Tuchiyama A.), **264**, 654
- Did cosmic rays reionize the intergalactic medium? (Nath B.B., Biermann P.L.), **265**, 241
- Infrared: interstellar: continuum**
- Infrared emission from hydrogenated amorphous carbon and amorphous carbon grains in the interstellar medium (Duley W.W., Jones A.P., Taylor S.D., Williams D.A.), **260**, 415
- Far-infrared emission from dust in the Bok globule Barnard 335 (De Luca M., Blanco A., Orofino V.), **262**, 805
- A two-micron Galactic survey (Garzón F., Hammersley P.L., Mahoney T., Calbet X., Selby M.J., Hepburn I.D.), **264**, 773
- High-resolution millimetre and submillimetre continuum observations of M17SW – II. Identification of embedded sources associated with H₂O masers (Hobson M.P., Padman R., Scott P.F., Prestage R.M., Ward-Thompson D.), **264**, 1025
- A search for water and mainline OH masers from OH/IR star colour mimics (Lewis B.M., Engels D.), **265**, 161
- Previously unresolved *IRAS* sources in the ρ Oph A cloud (Ward-Thompson D.), **265**, 493
- Infrared: interstellar: lines**
- Infrared spectroscopy of solid CO: the ρ Ophiuchi molecular cloud (Kerr T.H., Adamson A.J., Whittet D.C.B.), **262**, 1047
- Vibrational excitation of products of dissociative recombination (Bates D.R.), **263**, 369
- Pure fluorescent H₂ emission from Hubble 12 (Ramsay S.K., Chrysostomou A., Geballe T.R., Brand P.W.J.L., Mountain M.), **263**, 695
- The vibrations of C₆₀H₆₀ and the unidentified infrared emission (Webster A.), **264**, 121
- The dust around the cometary nebula Parsamian 13S (Smith R.G.), **264**, 587
- Physical conditions in photodissociation regions: M17 northern bar (Chrysostomou A., Brand P.W.J.L., Burton M.G., Moorhouse A.), **265**, 329
- Infrared: solar system**
- A physical model for the *IRAS* zodiacal dust bands (Jones M.H., Rowan-Robinson M.), **264**, 237
- The infrared (3.2–3.6 μm) spectrum of comet P/Swift–Tuttle: detection of methanol and other organics (Davies J.K., Mumma M.J., Reuter D.C., Hoban S., Weaver H.A., Puxley P.J., Lumsden S.L.), **265**, 1022
- Infrared: stars**
- Light-curve systematics of Cepheids in the infrared (Lane C.D., Stobie R.S.), **260**, 408
- Infrared observations of highly variable radio sources in the galactic plane (Norton A.J., Coe M.J., Unger S.J., Margon B., Phillips A.C.), **260**, 883
- The evolution of the 8–13 μm spectrum of supernova 1987A (Roche P.F., Aitken D.K., Smith C.H.), **261**, 522
- Spectroscopy of supernova 1987A at 1–4 μm – II. Days 377 to 1114 (Meikle W.P.S., Spyromilio J., Allen D.A., Varani G.-F., Cumming R.J.), **261**, 535
- Infrared and optical observations of the newly identified Be/X-ray binary LSI + 61° 235 (Coe M.J., Everal C., Norton A.J., Roche P., Unger S.J., Fabregat J., Reglero V., Grunsfeld J.M.), **261**, 599
- K-band spectroscopy of Be-star X-ray binaries (Everal C., Coe M.J., Norton A.J., Roche P., Unger S.J.), **262**, 57
- Circumstellar dust emission in five Large Magellanic Cloud supergiants (Roche P.F., Aitken D.K., Smith C.H.), **262**, 301
- Enhanced star formation in the cometary globules of the Gum nebula (Bhatt H.C.), **262**, 812
- Visual and infrared extinction from Cepheid observations (Lane C.D., Stobie R.S.), **263**, 921
- Evidence from infrared observations of circumstellar matter around chromospherically active binaries (Scaltriti F., Busso M., Ferrantioli M., Origlia L., Persi P., Roberto M., Silvestro G.), **264**, 5
- A comparison between observed and calculated *IRAS* fluxes of G and K giant stars (Bell R.A.), **264**, 345
- A two-micron Galactic survey (Garzón F., Hammersley P.L., Mahoney T., Calbet X., Selby M.J., Hepburn I.D.), **264**, 773
- Constraints on the outflow in S106IR from He I 2.058- μm absorption-line and H I emission-line profiles (Drew J.E., Bunn J.C., Hoare M.G.), **265**, 12
- Fundamental parameters for M4, the nearest globular cluster (Dixon R.I., Longmore A.J.), **265**, 395
- Mid-infrared spectroscopy of Beta Pictoris: constraints on the dust grain size (Aitken D.K., Moore T.J.T., Roche P.F., Smith C.H., Wright C.M.), **265**, L41

- Radio continuum: galaxies**
The cross-correlation of *IRAS* galaxies with Abell clusters and radio galaxies (Mo H.J., Peacock J.A., Xia X.Y.), **260**, 121
Structure of NGC 5128 (Centaurus A) at submillimetre wavelengths (Hawarden T.G., Sandell G., Matthews H.E., Friberg P., Watt G.D., Smith P.A.), **260**, 844
Radio variability in a complete sample of extragalactic sources at 151 MHz (Riley J.M.), **260**, 893
Physical conditions in the intergalactic medium (Subrahmanyam R., Saripalli L.), **260**, 908
A *ROSAT* observation of the powerful distant radio galaxy 3C 356 (Crawford C.S., Fabian A.C.), **260**, L15
Radio-loud AGN and the extragalactic gamma-ray background (Padovani P., Ghisellini G., Fabian A.C., Celotti A.), **260**, L21
Radio spectral ageing in a random magnetic field (Tribble P.C.), **261**, 57
Submillimetre observations of galaxies – I. First results (Clements D.L., Andreani P., Chase S.T.), **261**, 299
B0218 + 35.7: a gravitationally lensed system with the smallest separation (Patnaik A.R., Browne I.W.A., King L.J., Muxlow T.W.B., Walsh D., Wilkinson P.N.), **261**, 435
Magnetic fields in late-type galaxies (Fitt A.J., Alexander P.), **261**, 445
Analytic results for the gravitational lens statistics of singular isothermal spheres in general cosmologies (Kochanek C.S.), **261**, 453
Erratum: VLBI, MERLIN and VLA observations of the blazar 1156 + 295: a bending relativistic jet (McHardy I.M., Marscher A.P., Gear W.K., Muxlow T., Lehto H.J., Abraham R.G.), **261**, 464
The ultraviolet-to-radio continuum of the ultraluminous galaxy IRAS F10214 + 4724 (Rowan-Robinson M., Efstathiou A., Lawrence A., Oliver S., Taylor A., Broadhurst T.J., McMahon R.G., Benn C.R., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Saunders W.S., Clements D.L., Ellis R.S., Robson I.), **261**, 513
Cold dust around high-redshift quasars (Andreani P., La Franca F., Cristiani S.), **261**, L35
The modulation of radiation in an electron–positron plasma (Gangadhara R.T., Krishan V., Shukla P.K.), **262**, 151
Statistics of lensing by clusters of galaxies – I. Giant arcs (Wu X.-P., Hammer F.), **262**, 187
The infrared–millimetre–centimetre flaring behaviour of the quasar 3C 273 (Robson E.I., Litchfield S.J., Gear W.K., Hughes D.H., Sandell G., Courvoisier T.J.-L., Paltani S., Valtaoja E., Teräsranta H., Tornikoski M., Steppe H., Wright M.C.H.), **262**, 249
Corrigendum: On the origin of the radio emission in *IRAS* galaxies with high and ultrahigh luminosity: the starburst–AGN controversy (Colina L., Pérez-Olea D.), **262**, 543
Optical spectroscopy of southern radio galaxies (Simpson C., Clements D.L., Rawlings S., Ward M.), **262**, 889
The optical polarization of the low-redshift radio galaxies 3CR 33, 305, 321 and 459 (Draper P.W., Scarrott S.M., Tadhunter C.N.), **262**, 1029
Evidence against the unified scheme for powerful radio galaxies and quasars (Singal A.K.), **262**, L27
The extended nebulosity in the radio galaxy 3C 227 (Prieto M.A., Walsh J.R., Fosbury R.A.E., di Serego Alighieri S.), **263**, 10
Interstellar chemistry and the tight far-infrared–radio correlation (Bettens R.P.A., Brown R.D., Cragg D.M., Dickinson C.J., Godfrey P.D.), **263**, 93
Spectroscopy of faint radio sources: the nature of the sub-mJy radio-source population (Benn C.R., Rowan-Robinson M., McMahon R.G., Broadhurst T.J., Lawrence A.), **263**, 98
The evolution of faint radio sources (Rowan-Robinson M., Benn C.R., Lawrence A., McMahon R.G., Broadhurst T.J.), **263**, 123
The radio and optical properties of the $z < 0.5$ BQS quasars (Miller P., Rawlings S., Saunders R.), **263**, 425
The radio-loud fraction of QSOs and its dependence on magnitude and redshift (Padovani P.), **263**, 461
The radio nucleus of NGC 4151 at 5 and 8 GHz (Pedlar A., Kukula M.J., Longley D.P.T., Muxlow T.W.B., Axon D.J., Baum S., O'Dea C., Unger S.W.), **263**, 471
Thermal dust emission from quasars – I. Submillimetre spectral indices of radio-quiet quasars (Hughes D.H., Robson E.I., Dunlop J.S., Gear W.K.), **263**, 607
A complete sample of sources in the North Ecliptic Cap, selected at 38 MHz – II. CCD observations and their implications (Lacy M., Hill G.J., Kaiser M.-E., Rawlings S.), **263**, 707
Luminosity dependence of optical activity and alignments in radio galaxies (Dunlop J.S., Peacock J.A.), **263**, 936
The radio structures of southern 2-Jy radio sources (Morganti R., Killeen N.E.B., Tadhunter C.N.), **263**, 1023
The redshift of the lensing galaxy in the gravitationally lensed system B0218 + 35.7 (Browne I.W.A., Patnaik A.R., Walsh D., Wilkinson P.N.), **263**, L32
The kinetic power and luminosity of parsec-scale radio jets – an argument for heavy jets (Celotti A., Fabian A.C.), **264**, 228
VLA observations of a complete sample of core-dominated radio sources (Murphy D.W., Browne I.W.A., Perley R.A.), **264**, 298
Optical polarization in distant radio galaxies (Cimatti A., di Serego Alighieri S., Fosbury R.A.E., Salvati M., Taylor D.), **264**, 421
Submillimetre cosmology (Blain A.W., Longair M.S.), **264**, 509
A search for cold dust in clusters of galaxies with cooling flows (Annis J., Jewitt D.), **264**, 593
Further analysis of a ‘Complete Sample’ in the Virgo Supercluster of galaxies (Vallée J.P.), **264**, 665
X-ray beaming in radio quasars (Kembhavi A.), **264**, 683
8C 0821 + 695: a giant radio galaxy at $z = 0.538$ (Lacy M., Rawlings S., Saunders R., Warner P.J.), **264**, 721
Long-term radio observations of the nucleus of NGC 5128 (Centaurus A) (Botti L.C.L., Abraham Z.), **264**, 807
High-resolution radio observations of Markarian 3 (Kukula M.J., Ghosh T., Pedlar A., Schilizzi R.T., Miley G.K., de Bruyn A.G., Saikia D.J.), **264**, 893
Millimetre observations of X-ray-selected BL Lacs (Gear W.K.), **264**, L21
A *ROSAT* HRI study of the interaction of the X-ray-emitting gas and radio lobes of NGC 1275 (Böhringer H., Voges W., Fabian A.C., Edge A.C., Neumann D.M.), **264**, L25
The nature of the millimetre emission in NGC 4102, NGC 4418, NGC 6000 and Mrk 231 (Roche P.F., Chandler C.J.), **265**, 486
Source analysis on radio maps from the Cambridge Low Frequency Synthesis Telescope (Waldrum E.M., Riley J.M.), **265**, 853
On the radio properties of broad-absorption-line QSOs (de Kool M.), **265**, L17
Millimetre background radiation and galaxy formation (Blain A.W., Longair M.S.), **265**, L21
Radio continuum: general
The 6C survey of radio sources – V. The zones 6C-Va ($48^\circ < \delta < 68^\circ$, $01^\mathrm{h}34^\mathrm{m} < \alpha < 06^\mathrm{h}14^\mathrm{m}$) and 6C-Vb ($48^\circ < \delta < 68^\circ$, $17^\mathrm{h}16^\mathrm{m} < \alpha < 20^\mathrm{h}24^\mathrm{m}$) (Hales S.E.G., Masson C.R., Warner P.J., Baldwin J.E., Green D.A.), **262**, 1057
The 6C survey of radio sources – VI. The continuous zone $30^\circ < \delta < 51^\circ$, $0^\mathrm{h} < \alpha < 09^\mathrm{h}05^\mathrm{m}$ and $22^\mathrm{h}35^\mathrm{m} < \alpha < 24^\mathrm{h}$ (Hales S.E.G., Baldwin J.E., Warner P.J.), **263**, 25
Radio haloes, cluster mergers, and cooling flows (Tribble P.C.), **263**, 31
A deep *ROSAT* survey - III. Deep radio observations of a selected field (Boyle B.J., Staveley-Smith L., Stewart G.C., Georgantopoulos I., Shanks T., Griffiths R.E.), **265**, 501
Radio continuum: interstellar
Radio polarization in the supernova remnant Puppis A (G 260.4–3.4) (Milne D.K., Stewart R.T., Haynes R.F.), **261**, 366
Radio continuum observations of Sgr E (Gray A.D., Whiteoak J.B.Z., Cran L.E., Goss W.M.), **264**, 678
A faint polarized arc near the supernova remnant MSH 15–52 (G 320.4–1.2) (Milne D.K., Caswell J.L., Haynes R.F.), **264**, 853
High-resolution millimetre and submillimetre continuum observations of M17SW – II. Identification of embedded sources associated with H₂O masers (Hobson M.P., Padman R., Scott P.F., Prestage R.M., Ward-Thompson D.), **264**, 1025
A detailed X-ray and radio study of the supernova remnant W44 (Jones L.R., Smith A., Angelini L.), **265**, 631
Radio continuum: stars
A deep search for pulsed emission from Cassiopeia A (Woan G., Duffett-Smith P.J.), **260**, 693
Infrared observations of highly variable radio sources in the galactic plane (Norton A.J., Coe M.J., Unger S.J., Margon B., Phillips A.C.), **260**, 883

- VLBI observations of a strong radio flare in HR 1099 (Trigilio C., Umana G., Migenes V.), **260**, 903
- Circinus X-1: a runaway binary with curved radio jets (Stewart R.T., Caswell J.L., Haynes R.F., Nelson G.J.), **261**, 593
- Mean pulse polarization of southern pulsars at 1560 MHz (Wu Xinji, Manchester R.N., Lyne A.G., Qiao Guojun), **261**, 630
- Frequency dependence of characteristics of pulsars PSR 0031-07, 0320 + 39, 1133 + 16 and 2016 + 28 (Izvekova V.A., Kuzmin A.D., Lyne A.G., Shitov Yu. P., Smith F.G.), **261**, 865
- Timing observations of southern pulsars – 1987 to 1991 (D'Alessandro F., McCulloch P.M., King E.A., Hamilton P.A., McConnell D.), **261**, 883
- Pulsar statistics: the birthrate and initial spin periods of radio pulsars (Lorimer D.R., Bailes M., Dewey R.J., Harrison P.A.), **263**, 403
- Millimetre and submillimetre continuum observations of Nova Cygni 1992: a new test of mass ejection models (Ivison R.J., Hughes D.H., Lloyd H.M., Bang M.K., Bode M.F.), **263**, L43
- Coronal activity from AB Dor and RST 137B (Beasley A.J., Cram L.E.), **264**, 570
- A multi-frequency study of symbiotic stars – III. Simultaneous ultraviolet and optical observations of AX Persei (Ivison R.J., Bode M.F., Evans A., Skopal A., Meaburn J.), **264**, 875
- Microtexture in the pulsar radio emission zone (Asseo E.), **264**, 940
- Ryle Telescope observations of SN1993J at 15 GHz: the first 115 d (Pooley G.G., Green D.A.), **264**, L17
- Microwave radio emission from the red dwarf star YZ CMi (Spencer R.E., Davis R.J., Zafiroopoulos B., Nelson R.F.), **265**, 231
- Radio lines: galaxies**
- A physical distance indicator for spiral galaxies and the determination of H_0 (Salucci P., Frenk C.S., Persic M.), **262**, 392
- Tully-Fisher distances to M31-like galaxies in the Coma cluster (Rood H.J., Williams B.A.), **263**, 211
- Neutral hydrogen observations of NGC 3628 (Wilding T., Alexander P., Green D.A.), **263**, 1075
- Further analysis of a 'Complete Sample' in the Virgo Supercluster of galaxies (Vallée J.P.), **264**, 665
- CO observations of ultrasoft active galactic nuclei (Thompson R.J., Jr), **264**, 999
- Radio lines: general**
- Broad-band spectroscopy with the James Clerk Maxwell Telescope using a polarizing Fourier transform spectrometer (Naylor D.A., Clark T.A., Davis G.R., Duncan W.D., Tompkins G.J.), **260**, 875
- Neutral hydrogen at high redshifts as a probe of structure formation – I. Post-COBE analysis of CDM and HDM models (Subramanian K., Padmanabhan T.), **265**, 101
- Radio lines: ISM**
- Methanol masers at 12 GHz (Caswell J.L., Gardner F.F., Norris R.P., Wellington K.J., McCutcheon W.H., Peng R.S.), **260**, 425
- Population anti-inversion in the $2_{0-} \rightarrow 3_{-1}$ E transition of CH₃OH (Peng R.S., Whiteoak J.B.), **260**, 529
- Neutral hydrogen observations of a ROSAT deep survey field at RA 10^h07^m, Dec. 53° (Willacy K., Pedlar A., Berry D.), **261**, 165
- The kinematics of face-on disc galaxies, and the nature of the Galactic H I layer (Merrifield M.R.), **261**, 233
- The excitation and kinematics of DR21(OH) from observations of CS (Chandler C.J., Moore T.J.T., Mountain C.M., Yamashita T.), **261**, 694
- Detection of 35 new 5₁-6₀ A⁺-methanol masers towards IRAS sources (Schutte A.J., van der Walt D.J., Gaylard M.J., MacLeod G.C.), **261**, 783
- New detections of 6.6-GHz 5₁-6₀ A⁺-methanol emission towards southern hydroxyl masers (Gaylard M.J., MacLeod G.C.), **262**, 43
- A power spectrum analysis of the angular scale of Galactic neutral hydrogen emission towards $I=140^\circ$, $b=0^\circ$ (Green D.A.), **262**, 327
- Long-term variability in 12.2-GHz 2₀-3₋₁E-methanol masers and new detections towards 6.6-GHz 5₁-6₀ A⁺-methanol masers (MacLeod G.C., Gaylard M.J., Kemball A.J.), **262**, 343
- The molecular environment of S106 IR (Richer J.S., Padman R., Ward-Thompson D., Hills R.E., Harris A.I.), **262**, 839
- HCO⁺ emission in the HH7-11 region: the slowest component of the outflow? (Dent W.R.F., Cunningham C., Hayward R., Davies S.R., Wade D., Avery L.W., Mayer C.J., Masuda N.T.), **262**, L13
- IUE and H I observations of gas components towards HD 174632 (Montgomery A.S., Bates B., Davies R.D., Kemp S.N.), **263**, 131
- A survey of H I in Orion – II. Large-scale features and the lack of evidence for rotation (Green D.A., Padman R.), **263**, 535
- G25.5 + 0.2: a new luminous blue variable in the Galaxy? (Subrahmanyam R., Ekers R.D., Wilson W.E., Goss W.M., Allen D.A.), **263**, 868
- Ab initio* determination of the ratio of H₂ column density to CO($J = 1 \rightarrow 0$) integrated antenna temperature (Taylor S.D., Hartquist T.W., Williams D.A.), **264**, 929
- Radio lines: Solar system**
- Studies of telluric CO from Mauna Kea using the James Clerk Maxwell Telescope (Preston K.E., Feldman P.A., Singleton D.L., Amano T., Matthews H.E., Kudo A.), **264**, 673
- Radio lines: stars**
- Molecular observations of HH34: does NH₃ accurately trace dense molecular gas near young stars? (Davis C.J., Dent W.R.F.), **261**, 371
- Formaldehyde in oxygen-rich circumstellar envelopes (Millar T.J., Olofsson H.), **262**, L55
- Geometrical effects in models of OH/IR-star masers (van Langevelde H.J., Spaans M.), **264**, 597
- A search for water and mainline OH masers from OH/IR star colour mimics (Lewis B.M., Engels D.), **265**, 161
- Ultraviolet: galaxies**
- New detections of Ly α emission in young galaxies (Terlevich E., Diaz A.I., Terlevich R., García Vargas M.L.), **260**, 3
- The ultraviolet-to-radio continuum of the ultraluminous galaxy IRAS F10214 + 4724 (Rowan-Robinson M., Efstathiou A., Lawrence A., Oliver S., Taylor A., Broadhurst T.J., McMahon R.G., Benn C.R., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Saunders W.S., Clements D.L., Ellis R.S., Robson I.), **261**, 513
- Transfer function analysis of ultraviolet observations of NGC 5548 (Koen C.), **262**, 823
- Optical polarization in distant radio galaxies (Cimatti A., di Serego Alighieri S., Fosbury R.A.E., Salvati M., Taylor D.), **264**, 421
- Ultraviolet: general**
- The ROSAT Wide Field Camera all-sky survey of extreme-ultraviolet sources – I. The Bright Source Catalogue (Pounds K.A. et al.), **260**, 77
- Ultraviolet: interstellar**
- IUE and H I observations of gas components towards HD 174632 (Montgomery A.S., Bates B., Davies R.D., Kemp S.N.), **263**, 131
- Extreme-ultraviolet and low-energy X-ray scattering from interstellar dust (Cruise A.M.), **265**, 881
- Ultraviolet: stars**
- Gliese 841A: an EUV-selected chromospherically active binary system (Jeffries R.D., Bromage G.E.), **260**, 132
- The presence of Fe viii and of low-ionization features in the UV spectra of central stars of planetary nebulae (Tweedy R.W.), **260**, 855
- Optical and ultraviolet observations of the star LkHα 264 (Gameiro J.F., Lago M.T.V.T., Lima N.M., Cameron A.C.), **261**, 11
- The first measurement of the Lyman continuum emission from normal stars (Hoare M.G., Drew J.E., Denby M.), **262**, L19
- A 4.86-h periodic modulation in the UV resonance lines of the cataclysmic variable V795 Herculis (Prinjha R.K., Rosen S.R.), **262**, L37
- On the nebular absorption and re-emission of the ultraviolet flux from HD 44179 (Webster A.), **262**, L59
- The discovery of a new bright eclipsing AM Her system (Hakala P.J., Watson M.G., Vilhu O., Hassall B.J.M., Kellett B.J., Mason K.O., Pirola V.), **263**, 61
- ROSAT/IUE discovery of a white dwarf companion to HD 33959C (F4V) (Hodgkin S.T., Barstow M.A., Fleming T.A., Monier R., Pye J.P.), **263**, 229

- Heavy mass loss from the symbiotic star AS 304 (Munari U., Buson L.M.), **263**, 267
- ROSAT* studies of the composition and structure of DA white dwarf atmospheres (Barstow M.A., Fleming T.A., Diamond C.J., Finley D.S., Sansom A.E., Rosen S.R., Koester D., Marsh M.C., Holberg J.B., Kidder K.), **264**, 16
- RE1016–05: a white dwarf binary discovered with the *ROSAT* Wide Field Camera (Jomarion C.M., Branduardi-Raymont G., Bromage G.E., Hassall B.J.M., Hodgkin S.T., Mason K.O., Naylor T., Watson M.G.), **264**, 219
- Solar identifications of Fe X–Fe XV based on comparison with beam-foil, tokamak and laser-produced plasma spectra (Jupén C., Isler R.C., Träbert E.), **264**, 627
- A multi-frequency study of symbiotic stars – III. Simultaneous ultraviolet and optical observations of AX Persei (Ivison R.J., Bode M.F., Evans A., Skopal A., Meaburn J.), **264**, 875
- The radial velocity and binarity of HD 153919 (4U 1700–37) (Stickland D.J., Lloyd C.), **264**, 935
- High-velocity spectral features in V854 Centauri: evidence for dust formation? (Clayton G.C., Lawson W.A., Whitney B.A., Pollacco D.L.), **264**, L13
- RE 0618 + 75: a very short-period, binary dMe system (Jeffries R.D., Elliott K.H., Kellett B.J., Bromage G.E.), **265**, 81
- Is the accretion disc of TT Ari hotter after a minimum? (Tout C.A., Pringle J.E., la Dous C.), **265**, L5
- X-rays: bursts**
- A *ROSAT* Wide Field Camera search for XUV bursts (Owens A., Page C.G., Sembay S., Schaefer B.E.), **260**, L25
- Unusual features in the persistent emission of the Rapid Burster (Lubin L.M., Lewin W.H.G., van Paradijs J., van der Klis M.), **261**, 149
- Black hole remnants: soft X-ray flares from tidally disrupted stars (Sembay S., West R.G.), **262**, 141
- X-rays: galaxies**
- A deep *ROSAT* survey – I. The QSO X-ray luminosity function (Boyle B.J., Griffiths R.E., Shanks T., Stewart G.C., Georgantopoulos I.), **260**, 49
- The broad-band X-ray spectral variability of Mrk 841 (George I.M., Nandra K., Fabian A.C., Turner T.J., Done C., Day C.S.R.), **260**, 111
- The subdegree angular structure of the X-ray sky as seen by the *Ginga* satellite (Carrera F.J., Barcons X., Butcher J.A., Fabian A.C., Stewart G.C., Toffolatti L., Warwick R.S., Hayashida K., Inoue H., Kondo H.), **260**, 376
- A *ROSAT* observation of NGC 5548 (Nandra K., Fabian A.C., George I.M., Branduardi-Raymont G., Lawrence A., Mason K.O., McHardy I.M., Pound K.A., Stewart G.C., Ward M.J., Warwick R.S.), **260**, 504
- X-ray polarization properties of a centrally illuminated accretion disc (Matt G.), **260**, 663
- A *ROSAT* observation of the powerful distant radio galaxy 3C 356 (Crawford C.S., Fabian A.C.), **260**, L15
- AGN X-ray light curves – shot noise or low-dimensional attractor? (Lehto H.J., Czerny B., McHardy I.M.), **261**, 125
- The recognition of BL Lac objects and their statistical properties (Browne I.W.A., Marché M.J.M.), **261**, 795
- The soft X-ray excesses of high-luminosity AGN (Saxton R.D., Turner M.J.L., Williams O.R., Stewart G.C., Ohashi T., Kii T.), **262**, 63
- Iron Kα lines from X-ray photoionized accretion discs (Matt G., Fabian A.C., Ross R.R.), **262**, 179
- Further probing of the X-ray source in NGC 4151: new constraints on the nuclear geometry (Yaqoob T., Warwick R.S., Makino F., Otani C., Sokoloski J.L., Bond I.A., Yamauchi M.), **262**, 435
- A deep *ROSAT* survey – II. Observations of the isotropy of the 1–2 keV X-ray background (Georgantopoulos I., Stewart G.C., Shanks T., Griffiths R.E., Boyle B.J.), **262**, 619
- Further constraints on the warm absorber in MR2251–17.8 from *Ginga* and *EXOSAT* observations (Mineo T., Stewart G.C.), **262**, 817
- A *ROSAT* PSPC observation of Abell 478: the distribution of X-ray absorbing matter in a massive cooling flow (Allen S.W., Fabian A.C., Johnstone R.M., White D.A., Daines S.J., Edge A.C., Stewart G.C.), **262**, 901
- Unified theories of active galactic nuclei: the hard X-ray spectrum of NGC 1068 (Smith D.A., Done C., Pounds K.A.), **263**, 54
- Monte Carlo simulations of X-ray spectra for internally illuminated spherical matter distributions (Leahy D.A., Creighton J.), **263**, 314
- Elliptical galaxy cooling flows without mass drop-out (Tabor G., Binney J.), **263**, 323
- ROSAT* PSPC observations of the extragalactic H II region NGC 5408 (Fabian A.C., Ward M.J.), **263**, L51
- Hard and soft X-ray selected active galactic nuclei: two distinct populations? (Franceschini A., Martin-Mirones J.M., Danese L., De Zotti G.), **264**, 35
- The dynamics of the outer regions of the Coma cluster (van Haarlem M.P., Cayón L., de la Cruz C.G., Martínez-González E., Rebolo R.), **264**, 71
- Stellar accretion in active galactic nuclei (King A.R., Done C.), **264**, 388
- An estimate of the central black hole mass in NGC 6814 (Campana S., Stella L.), **264**, 395
- X-ray beaming in radio quasars (Kembhavi A.), **264**, 683
- X-ray photoionized accretion discs: UV and X-ray continuum spectra and polarization (Matt G., Fabian A.C., Ross R.R.), **264**, 839
- Millimetre observations of X-ray-selected BL Lacs (Gear W.K.), **264**, L21
- A *ROSAT* HRI study of the interaction of the X-ray-emitting gas and radio lobes of NGC 1275 (Böhringer H., Voges W., Fabian A.C., Edge A.C., Neumann D.M.), **264**, L25
- X-ray properties of active galaxies with high intrinsic absorption (Warwick R.S., Sembay S., Yaqoob T., Makishima K., Ohashi T., Tashiro M., Kohmura Y.), **265**, 412
- Radiative reprocessing by blobs immersed in the X-ray-emitting regions of AGN (Bond I.A., Matsuoka M.), **265**, 619
- On the nature of rapid X-ray variability in active galactic nuclei (Green A.R., McHardy I.M., Lehto H.J.), **265**, 664
- ROSAT* PSPC observations of NGC 7469 and Ark 120 (Brandt W.N., Fabian A.C., Nandra K., Tsuruta S.), **265**, 996
- X-rays: general**
- The outflowing regime of quasi-spherical accretion on to X-ray compact objects (Igumenshchev I.V., Illarionov A.F., Kompaneets D.A.), **260**, 727
- The effects of photoionization on X-ray reflection spectra in active galactic nuclei (Ross R.R., Fabian A.C.), **261**, 74
- Hard and soft X-ray selected active galactic nuclei: two distinct populations? (Franceschini A., Martin-Mirones J.M., Danese L., De Zotti G.), **264**, 35
- A deep *ROSAT* survey – III. Deep radio observations of a selected field (Boyle B.J., Staveley-Smith L., Stewart G.C., Georgantopoulos I., Shanks T., Griffiths R.E.), **265**, 501
- Detection of the Sunyaev–Zel'dovich effect in Abell 773 (Grainge K., Jones M., Pooley G., Saunders R., Edge A.), **265**, L57
- X-rays: interstellar**
- A detailed X-ray and radio study of the supernova remnant W44 (Jones L.R., Smith A., Angellini L.), **265**, 631
- Extreme-ultraviolet and low-energy X-ray scattering from interstellar dust (Cruise A.M.), **265**, 881
- X-rays: stars**
- Observations and modelling of the hard X-ray emission from GX 1 + 4 (Greenhill J.G., Sharma D.P., Dieters S.W.B., Sood R.K., Waldron L., Storey M.C.), **260**, 21
- Cosmic-abundance absorption dips in X1755–33 (Church M.J., Balucinska-Church M.), **260**, 59
- Modelling of X-ray emission from WR + O binary systems (Myasnikov A.V., Zhekov S.A.), **260**, 221
- X-ray orbital modulations in intermediate polars (Hellier C., Garlick M.A., Mason K.O.), **260**, 299
- ROSAT* EUV and soft X-ray studies of atmospheric composition and structure in G191–B2B (Barstow M.A., Fleming T.A., Finley D.S., Koester D., Diamond C.J.), **260**, 631
- X-ray polarization properties of a centrally illuminated accretion disc (Matt G.), **260**, 663
- Simultaneous *ROSAT/Ginga* observations of 4U 1820–30 (van der Klis M., Hasinger G., Dotani T., Mitsuda K., Verbunt F., Murphy B.W., van Paradijs J., Belloni T., Makishima K., Morgan E., Lewin W.H.G.), **260**, 686
- The evolutionary status of the black hole candidate V404 Cygni (King A.R.), **260**, L5

- Unusual features in the persistent emission of the Rapid Burster (Lubin L.M., Lewin W.H.G., van Paradijs J., van der Klis M.), **261**, 149
- Optical spectroscopy of the massive X-ray binary SMC X-1/Sk 160 (Reynolds A.P., Hilditch R.W., Bell S.A., Hill G.), **261**, 337
- X-ray polarization in the two-phase model for AGN and X-ray binaries (Haardt F., Matt G.), **261**, 346
- Unified model fitting to variable X-ray spectra of Cygnus X-3 (Nakamura H., Matsuoka M., Kawai N., Yoshida A., Miyoshi S., Kitamoto S., Yamashita K.), **261**, 353
- Circinus X-1: a runaway binary with curved radio jets (Stewart R.T., Caswell J.L., Haynes R.F., Nelson G.J.), **261**, 593
- Infrared and optical observations of the newly identified Be/X-ray binary LSI + 61° 235 (Coe M.J., Everall C., Norton A.J., Roche P., Unger S.J., Fabregat J., Reglero V., Grunsfeld J.M.), **261**, 599
- Discovery of an EUV-bright polar in the period gap from the *ROSAT* Wide Field Camera sky survey (Buckley D.A.H., O'Donoghue D., Hassall B.J.M., Kellett B.J., Mason K.O., Sekiguchi K., Watson M.G., Wheatley P.J., Chen A.), **262**, 93
- Iron K α lines from X-ray photoionized accretion discs (Matt G., Fabian A.C., Ross R.R.), **262**, 179
- The EUV source population and the local bubble (Warwick R.S., Barber C.R., Hodgkin S.T., Pye J.P.), **262**, 289
- Detection of a 5.7-h period in the globular cluster X-ray source 4U 1746–371 (Sansom A.E., Dotani T., Asai K., Lehto H.J.), **262**, 429
- Ginga* observations of X1820–303 in the globular cluster NGC 6624 (Ercan E.N., Cruise A.M., Kellett B.J., Saygili K.), **262**, 511
- A simple analysis of period noise in binary X-ray pulsars (de Kool M., Anzer U.), **262**, 726
- How young are the low-mass X-ray binaries? Conclusions from a flux-limited sample (Naylor T., Podsiadlowski Ph.), **262**, 929
- ROSAT* observations of UZ For: evidence of a structured X-ray emission region (Ramsay G., Rosen S.R., Mason K.O., Cropper M.S., Watson M.G.), **262**, 993
- X-ray observations of EX Hydrae with the *Einstein* Solid State Spectrometer (Singh J., Swank J.), **262**, 1000
- A 4.86-h periodic modulation in the UV resonance lines of the cataclysmic variable V795 Herculis (Prinja R.K., Rosen S.R.), **262**, L37
- ROSAT/IUE* discovery of a white dwarf companion to HD 33959C (F4V) (Hodgkin S.T., Barstow M.A., Fleming T.A., Monier R., Pye J.P.), **263**, 229
- Monte Carlo simulations of X-ray spectra for internally illuminated spherical matter distributions (Leahy D.A., Creighton J.), **263**, 314
- On re-acceleration, pairs and the high-energy spectrum of AGN and Galactic black hole candidates (Ghisellini G., Haardt F., Fabian A.C.), **263**, L9
- ROSAT* studies of the composition and structure of DA white dwarf atmospheres (Barstow M.A., Fleming T.A., Diamond C.J., Finley D.S., Sansom A.E., Rosen S.R., Koester D., Marsh M.C., Holberg J.B., Kidder K.), **264**, 16
- The kinematics of active late-type stars observed by the *ROSAT* Wide Field Camera (Jeffries R.D., Jewell S.J.), **264**, 106
- Vela X-1 and its missing third harmonic (Orlandini M.), **264**, 181
- Is X1957 + 11 a black hole candidate? (Yaqoob T., Ebisawa K., Mitsuda K.), **264**, 411
- X-ray photoionized accretion discs: UV and X-ray continuum spectra and polarization (Matt G., Fabian A.C., Ross R.R.), **264**, 839
- The radial velocity and binarity of HD 153919 (4U 1700–37) (Stickland D.J., Lloyd C.), **264**, 935
- RE 0618 + 75: a very short-period, binary dMe system (Jeffries R.D., Elliott K.H., Kellett B.J., Bromage G.E.), **265**, 81
- Simulation of the X-ray light curves of intermediate polars (Norton A.J.), **265**, 316
- The noise in the 35-d cycle of Her X-1 (Baykal A., Boynton P.E., Deeter J.E., Scott D.M.), **265**, 347
- RE1844–74: a new AM Her star from the *ROSAT* Wide Field Camera Survey (O'Donoghue D., Mason K.O., Chen A., Hassall B.J.M., Watson M.G.), **265**, 545
- On determining the wind velocity profiles of early-type stars in massive X-ray binary systems (Stevens I.R.), **265**, 601
- An ellipsoidal study of Centaurus X-4 (Shahbaz T., Naylor T., Charles P.A.), **265**, 655
- Optical studies of V404 Cyg, the X-ray transient GS 2023 + 338 – III. The secondary star and accretion disc (Casares J., Charles P.A., Naylor T., Pavlenko E.P.), **265**, 834
- Geminga: origins of its X-ray and gamma-ray emission (Harding A.K., Ozernoy L.M., Usov V.V.), **265**, 921
- 1H0551 – 819: discovery of a new cataclysmic variable from the *HEAO-1* Survey (Buckley D.A.H., Remillard R.A., Tuohy I.R., Warner B., Sullivan D.J.), **265**, 926
- CCD photometry of the massive X-ray binary 2S 0114 + 650 (Bell S.A., Hilditch R.W., Pollacco D.L.), **265**, 1042
- The ionization structure of Cygnus X-3: a massive iron-depleted companion? (Terasawa N., Nakamura H.), **265**, L1
- Disc-overflow accretion in the intermediate polar FO Aquarii (Hellier C.), **265**, L35



AUTHOR INDEX

- Abraham R.G. *see* M'Hardy I.M.
 Abraham Z. *see* Botti L.C.L.
 Adamson A.J. *see* Kerr T.H.
 Adelman S.J. *see* Pintado O.I.
 Aikawa T., Irregular small-amplitude pulsations in yellow supergiant star models, **262**, 893
 Aitken D.K. *see* Roche P.F.
 Aitken D.K., Moore T.J.T., Roche P.F., Smith C.H., Wright C.M., Mid-infrared spectroscopy of Beta Pictoris: constraints on the dust grain size, **265**, L41
 Aitken D.K., Wright C.M., Smith C.H., Roche P.F., Studies in mid-infrared spectropolarimetry – I. Magnetic fields, discs and flows in star formation regions, **262**, 456
 Akazawa H. *see* Krisciunas K.
 Alexander P. *see* Fitt A.J.
 Alexander P. *see* Wilding T.
 Allan D.J. *see* Pounds K.A.
 Allen D.A. *see* Caldwell J.A.R.
 Allen D.A. *see* Meikle W.P.S.
 Allen D.A. *see* Subrahmanyam R.
 Allen S.W., Fabian A.C., Johnstone R.M., White D.A., Daines S.J., Edge A.C., Stewart G.C., A ROSAT PSPC observation of Abell 478: the distribution of X-ray absorbing matter in a massive cooling flow, **262**, 901
 Almoxrino E., Loinger F., Brosch N., A procedure for the calculation of background in images, **265**, 641
 Amano T. *see* Preston K.E.
 Amico P. *see* Fasano G.
 Annunziato P.R., The features of chemical abundances in Galactic planetary nebulae, **261**, 263
 Anders G.J., Jeffries R.D., Kellett B.J., Coates D.W., Speedy Mic: a very young, rapidly rotating K star, **265**, 941
 Anderson B. *see* Harrison P.A.
 Andreani P. *see* Clements D.L.
 Andreani P., La Franca F., Cristiani S., Cold dust around high-redshift quasars, **261**, L35
 Andrievsky S.M., Kovtyukh V.V., Makarenko E.N., Usenko I.A., An investigation of the double-mode Cepheid TU Cassiopeiae – I. Atmospheric parameters and chemical composition, **265**, 257
 Andrillat Y., Houziaux L., Nova Cygni 1992: spectral development in the near-infrared at maximum light, **261**, L1
 Angellini L. *see* Jones L.R.
 Annis J., Jewitt D., A search for cold dust in clusters of galaxies with cooling flows, **264**, 593
 Antonuccio-Delogu V. *see* Sommer-Larsen J.
 Anupama G.C., Prabhu T.P., The nebular remnant and quiescent spectrum of Nova GK Persei, **263**, 335
 Anzer U. *see* de Kool M.
 Aoki K. *see* Yamada T.
 Aragón-Salamanca A. *see* Smail I.
 Aragón-Salamanca A., Ellis R.S., Couch W.J., Carter D., Evidence for systematic evolution in the properties of galaxies in distant clusters, **262**, 764
 Arnal E.M., Morras R., Rizzo J.R., Multicolour polarization and CO observations towards a dark filament in Musca, **265**, 1
 Arnaud J.V. *see* Sáez D.
 Arthur S.J., Dyson J.E., Hartquist T.W., Mass-loaded astronomical flows – IV. A time-dependent hydrodynamic model of an observed clumpy wind-blown bubble, RCW 58, **261**, 425
 Arthur S.J., Falle S.A.E.G., Supernova remnants in plane-stratified media: predictions for Hα-emitting regions, **261**, 681
 Asai K. *see* Sansom A.E.
 Asher D.J., Clube S.V.M., Steel D.I., Asteroids in the Taurid Complex, **264**, 93
 Asher D.J., Steel D.I., Orbital evolution of the large outer Solar system object 5145 Pholus, **263**, 179
 Ashley R.P. *see* Kurtz D.W.
 Ashman K.M. *see* Zepf S.E.
 Ashman K.M., Salucci P., Persic M., The mass function of spiral galaxy haloes, **260**, 610
 Ashok N.M. *see* Raju K.P.
 Askari H.R. *see* Riazi N.
 Aspin C. *see* Krisciunas K.
 Asseo E., Microtexture in the pulsar radio emission zone, **264**, 940
 Avery L.W. *see* Dent W.R.F.
 Axon D.J. *see* Inglis M.D.
 Axon D.J. *see* Pedlar A.
 Axon D.J. *see* Young S.
 Bagley G. *see* Colless M.
 Bagley G. *see* Saglia R.P.
 Bailes M. *see* D'Amico N.
 Bailes M. *see* Lorimer D.R.
 Bailey J. *see* Ferrario L.
 Bailey J., Wickramasinghe D.T., Ferrario L., Hough J.H., Cropper M., Changes of accretion spot longitude in eclipsing AM Herculis binaries, **261**, L31
 Bailey J.A. *see* Inglis M.D.
 Bailey J.A. *see* Wickramasinghe D.T.
 Bailey J.A. *see* Young S.
 Baldwin J.E. *see* Hales S.E.G.
 Balmforth N.J., Howard L.N., Spiegel E.A., Equilibria of rapidly rotating polytropes, **260**, 253
 Balona L.A., Cuypers J., The extraordinary early-type eclipsing binary HR 2680, **261**, 1
 Balona L.A., Jerzykiewicz M., CCD photometry of two young Large Magellanic Cloud clusters: NGC 2004 and 2100, **260**, 782
 Balona L.A., The young Large Magellanic Cloud clusters NGC 2004 and 2100 and their short-period variables, **260**, 795
 Balucińska-Church M. *see* Church M.J.
 Banfield R.M. *see* Caldwell J.A.R.
 Bang M.K. *see* Ivison R.J.
 Barber C. *see* Pounds K.A.
 Barber C.R. *see* Warwick R.S.
 Barcons X. *see* Carrera F.J.
 Baring M.G., The suppression of pulsar and gamma-ray burst annihilation lines by magnetic photon splitting, **262**, 20
 Barlow M.J. *see* Rawlings J.M.C.
 Barrow J.D., Saich P., Growth of large-scale structure with a cosmological constant, **262**, 717
 Barstow M.A. *see* Hodking S.T.
 Barstow M.A. *see* Pounds K.A.
 Barstow M.A., Fleming T.A., Diamond C.J., Finley D.S., Sansom A.E., Rosen S.R., Koester D., Marsh M.C., Holberg J.B., Kidder K., ROSAT studies of the composition and structure of DA white dwarf atmospheres, **264**, 16
 Barstow M.A., Fleming T.A., Finley D.S., Koester D., Diamond C.J., ROSAT EUV and soft X-ray studies of atmospheric composition and structure in G191-B2B, **260**, 631
 Bates B. *see* Montgomery A.S.
 Bates D.R., Vibrational excitation of products of dissociative recombination, **263**, 369
 Baugh C., Self-avoiding random walks as a probe of large-scale structure in the Universe, **264**, 87
 Baugh C.M., Efstathiou G., The three-dimensional power spectrum measured from the APM Galaxy Survey – I. Use of the angular correlation function, **265**, 145
 Baum S. *see* Pedlar A.
 Baykal A., Boynton P.E., Deeter J.E., Scott D.M., The noise in the 35-d cycle of Her X-1, **265**, 347
 Beasley A.J., Cram L.E., Coronal activity from AB Dor and RST 137B, **264**, 570
 Bechtold J. *see* Frye B.L.
 Beech M., Brown P., Impact probabilities on artificial satellites for the 1993 Perseid meteoroid stream, **262**, L35
 Begelman M.C., Mészáros P., Rees M.J., Gamma-ray bursts from blast waves around Galactic neutron stars, **265**, L13
 Bell K.L. *see* Stafford R.P.
 Bell R.A. *see* Bonnell J.T.
 Bell R.A., A comparison between observed and calculated *IRAS* fluxes of G and K giant stars, **264**, 345
 Bell S.A. *see* Caldwell J.A.R.
 Bell S.A. *see* Pollacco D.L.
 Bell S.A. *see* Reynolds A.P.

- Bell S.A., Hilditch R.W., Edwin R.P., CCD photometry of the eclipsing binary RU UMi, **260**, 478
Bell S.A., Hilditch R.W., Pollacco D.L., CCD photometry of the massive X-ray binary 2S 0114 + 650, **265**, 1042
Bell S.A., Hill G., Hilditch R.W., Clausen J.V., Reynolds A.P., Eclipsing binaries in the Magellanic Clouds – II. Absolute dimensions and distance modulus for HV 5936 in the Large Magellanic Cloud, **265**, 1047
Belloni T. *see* van der Klis M.
Belvedere G. *see* Lanzafame G.
Benetti S. *see* Turatto M.
Benn C.R. *see* Rowan-Robinson M.
Benn C.R., Rowan-Robinson M., McMahon R.G., Broadhurst T.J., Lawrence A., Spectroscopy of faint radio sources: the nature of the sub-mJy radio-source population, **263**, 98
Benvenuto O.G. *see* Horvath J.E.
Bergeron J. *see* Petitjean P.
Bernardeau F. *see* Schaeffer R.
Berrington K.A. *see* Lanzafame A.C.
Berry D. *see* Willacy K.
Bertin G. *see* Albada T.S.
Bertola F. *see* Fasano G.
Bertram D. *see* Pounds K.A.
Bertschinger E. *see* Colless M.
Bertschinger E. *see* Saglia R.P.
Bettens R.P.A. *see* Cragg D.M.
Bettens R.P.A. *see* Petrie S.
Bettens R.P.A., Brown R.D., Cragg D.M., Dickinson C.J., Godfrey P.D., Interstellar chemistry and the tight far-infrared-radio correlation, **263**, 93
Bhatt H.C., Enhanced star formation in the cometary globules of the Gum nebula, **262**, 812
Bica E. *see* Santos J.F.C., Jr
Bičák J., Lynden-Bell D., Pichon C., Relativistic discs and flat galaxy models, **265**, 126
Bičák J., Semerák O., Hadraiva P., Collimation effects of the Kerr field, **263**, 545
Bicknell G.V. *see* Meglicki Z.
Biermann P.L. *see* Nath B.B.
Binney J. *see* Leeuwijn F.
Binney J. *see* Tabor G.
Binney J., Kumar S., Angle variables for numerically fitted orbital tori, **261**, 584
Biro S. *see* Dyson J.E.
Biro S. *see* Raga A.C.
Blades J.C. *see* Caldwell J.A.R.
Blain A.W., Longair M.S., Millimetre background radiation and galaxy formation, **265**, L21
Blain A.W., Longair M.S., Submillimetre cosmology, **264**, 509
Blanco A. *see* De Luca M.
Blandford R.D. *see* Coppi P.
Blietz M. *see* Clements D.L.
Blumenthal G.R. *see* Piran T.
Bode M.F. *see* Ivison R.J.
Bode M.F. *see* Lloyd H.M.
Bodenheimer P. *see* Burkert A.
Bodenheimer P. *see* Rózyczka M.
Bogovalov S.V., Kotov Yu.D., Interpretation of very high-energy gamma-rays from the direction of the Crab nebula, **262**, 75
Böhringer H., Voges W., Fabian A.C., Edge A.C., Neumann D.M., A *ROSAT* HRI study of the interaction of the X-ray-emitting gas and radio lobes of NGC 1275, **264**, L25
Boily C., Lynden-Bell D., Self-similar collapse of flat systems, **264**, 1003
Bond I.A. *see* Yaqoob T.
Bond I.A., Matsuoka M., Radiative reprocessing by blobs immersed in the X-ray-emitting regions of AGN, **265**, 619
Bondi Sir Hermann, Addendum: Anisotropic spheres in general relativity, **262**, 1088
Bonnell J.T., Bell R.A., Further determinations of the gravities of cool giant stars using Mg I and MgH features, **264**, 334
Bonnell J.T., Bell R.A., The gravities of K giant stars determined from [O I] and OH features, **264**, 319
Borgani S., The multifractal behaviour of hierarchical density distributions, **260**, 537
Börner G. *see* Mo H.J.
Boswell J. *see* Hughes D.W.
Botti L.C.L., Abraham Z., Long-term radio observations of the nucleus of NGC 5128 (Centaurus A), **264**, 807
Bowen D.V. *see* Lewis J.R.
Bower R.G. *see* Guzmán R.
Boyce P.J. *see* Davies J.I.
Boyle B.J. *see* Couch W.J.
Boyle B.J. *see* Georgantopoulos I.
Boyle B.J. *see* Terlevich R.J.
Boyle B.J., Couch W.J., The environments of optically selected QSOs at $0 < z < 1.5$, **264**, 604
Boyle B.J., Griffiths R.E., Shanks T., Stewart G.C., Georgantopoulos I., A deep *ROSAT* survey – I. The QSO X-ray luminosity function, **260**, 49
Boyle B.J., Mo H.J., The clustering of QSOs at low redshift, **260**, 925
Boyle B.J., Staveley-Smith L., Stewart G.C., Georgantopoulos I., Shanks T., Griffiths R.E., A deep *ROSAT* survey – III. Deep radio observations of a selected field, **265**, 501
Boynton P.E. *see* Baykal A.
Brand P.W.J.L. *see* Chrysostomou A.
Brand P.W.J.L. *see* Ramsay S.K.
Brandt W.N., Fabian A.C., Nandra K., Tsuruta S., *ROSAT* PSPC observations of NGC 7469 and Ark 120, **265**, 996
Branduardi-Raymont G. *see* Jomaron C.M.
Branduardi-Raymont G. *see* Nandra K.
Branduardi-Raymont G. *see* Pounds K.A.
Brebner G.E.C. *see* Pounds K.A.
Brett J.M., Smith R.C., A model atmosphere investigation of the effect of irradiation on the secondary star in a dwarf nova, **264**, 641
Brett L. *see* Kahn F.D.
Briel U.G. *see* White S.D.M.
Brindle C. *see* Inglis M.D.
Broadhurst T. *see* Lawrence A.
Broadhurst T.J. *see* Benn C.R.
Broadhurst T.J. *see* Colless M.
Broadhurst T.J. *see* Rowan-Robinson M.
Bromage G.E. *see* Jeffries R.D.
Bromage G.E. *see* Jomaron C.M.
Bromage G.E. *see* Pounds K.A.
Brooke T.Y. *see* Smith R.G.
Brosch N. *see* Almoznino E.
Brown P. *see* Beech M.
Brown P. *see* Jones J.
Brown R.D. *see* Bettens R.P.A.
Brown R.D. *see* Cragg D.M.
Browne I.W.A. *see* Murphy D.W.
Browne I.W.A. *see* Patnaik A.R.
Browne I.W.A., Marchá M.J.M., The recognition of BL Lac objects and their statistical properties, **261**, 795
Browne I.W.A., Patnaik A.R., Walsh D., Wilkinson P.N., The redshift of the lensing galaxy in the gravitationally lensed system B0218 + 35.7, **263**, L32
Bucher T., Ehlers J., Lagrangian theory of gravitational instability of Friedmann–Lemaître cosmologies – second-order approach: an improved model for non-linear clustering, **264**, 375
Buckley D. *see* Pounds K.A.
Buckley D.A.H. *see* Caldwell J.A.R.
Buckley D.A.H. *see* Hellier C.
Buckley D.A.H., O'Donoghue D., Hassall B.J.M., Kellett B.J., Mason K.O., Sekiguchi K., Watson M.G., Wheatley P.J., Chen A., Discovery of an EUV-bright polar in the period gap from the *ROSAT* Wide Field Camera sky survey, **262**, 93
Buckley D.A.H., Remillard R.A., Tuohy I.R., Warner B., Sullivan D.J., 1H0551–819: discovery of a new cataclysmic variable from the *HEAO-1* Survey, **265**, 926
Buitrago J. *see* Mediavilla E.
Bunn J.C. *see* Drew J.E.
Buonanno R. *see* Ferraro F.R.
Burgess A. *see* Lanzafame A.C.
Burkert A., Bodenheimer P., Multiple fragmentation in collapsing protostars, **264**, 798
Burstein D. *see* Colless M.
Burstein D. *see* Saglia R.P.
Burton M.G. *see* Chrysostomou A.

- Buson L. *see* Carollo C.M.
 Buson L.M. *see* Munari U.
 Busso M. *see* Scaltriti F.
 Butcher J.A. *see* Carrera F.J.
 Byrne P.B. *see* Caldwell J.A.R.
 Byrne P.B. *see* Lanzafame A.C.
 Calbet X. *see* Garzón F.
 Caldwell J.A.R., Menzies J.W., Banfield R.M., Catchpole R.M., Whitelock P.A., Feast M.W., Lloyd Evans T.H.H., Sekiguchi K., Zijlstra A., Allen D.A., Bell S.A., Blades J.C., Buckley D.A.H., Byrne P.B., Callanan P., Collins C., Cumming R.J., O'Donoghue D., Fairall A.P., Freeman F.F., Holmgren D., Jones K., Latham D.W., Maddox S., Meadows V.S., Meikle W.P.S., Mittal J.P.D., Monk A., Penny A.J., Pollacco D., Slawson R.D., Soltynski M.G., Spyromilio J., Stirpe G.M., Stobie R.S., Willmer C., Spectroscopic and photometric observations of supernova 1987A – VII. Days 793 to 1770, **262**, 313
 Callanan P. *see* Caldwell J.A.R.
 Cameron A.C. *see* Gameiro J.F.
 Campana S., Stella L., An estimate of the central black hole mass in NGC 6814, **264**, 395
 Cannon R.C., Massive Thorne-Żytkow objects: structure and nucleosynthesis, **263**, 817
 Cannon R.D. *see* Hatzidimitriou D.
 Cantó J. *see* Raga A.C.
 Caon N., Capaccioli M., D'Onofrio M., On the shape of the light profiles of early-type galaxies, **265**, 1013
 Capaccioli M. *see* Caon N.
 Capaccioli M., Piotto G., Stiavelli M., Disc-shocking and the mass function of Galactic globular clusters, **261**, 819
 Cappellaro E. *see* Turatto M.
 Cappi A. *see* Schaeffer R.
 Carollo C.M., Danziger I.J., Buson L., Metallicity gradients in early-type galaxies, **265**, 553
 Carrera F.J., Barcons X., Butcher J.A., Fabian A.C., Stewart G.C., Toffolatti L., Warwick R.S., Hayashida K., Inoue H., Kondo H., The subdegree angular structure of the X-ray sky as seen by the Ginga satellite, **260**, 376
 Carswell R.F. *see* Petitjean P.
 Carswell R.F. *see* Rauch M.
 Carter D. *see* Aragón-Salamanca A.
 Carter D., Jenkins C.R., High-resolution kinematic observations of rapidly rotating spheroidal components of galaxies, **263**, 1049
 Casares J., Charles P.A., Naylor T., Pavlenko E.P., Optical studies of V404 Cyg, the X-ray transient GS 2023 + 338 – III. The secondary star and accretion disc, **265**, 834
 Cassidy I., Raine D.J., The broad-line regions of active galaxies, **260**, 385
 Caswell J.L. *see* Milne D.K.
 Caswell J.L. *see* Stewart R.T.
 Caswell J.L., Gardner F.F., Norris R.P., Wellington K.J., McCutcheon W.H., Peng R.S., Methanol masers at 12 GHz, **260**, 425
 Catalán M.S. *see* Smith R.C.
 Catchpole R.M. *see* Caldwell J.A.R.
 Catelan P. *see* Plionis M.
 Cattani M. *see* de Freitas Pacheco J.A.
 Cayón L. *see* van Haarlem M.P.
 Celotti A. *see* Padovani P.
 Celotti A., Fabian A.C., The kinetic power and luminosity of parsec-scale radio jets – an argument for heavy jets, **264**, 228
 Chakrabarti S.K., Reversal of force and energy coupling around a rotating black hole, **261**, 625
 Chamcham K., Pitts E., Tayler R.J., Thresholds and the chemical evolution of galactic discs, **263**, 967
 Chan R., Herrera L., Santos N.O., Dynamical instability for radiating anisotropic collapse, **265**, 533
 Chandler C.J. *see* Roche P.F.
 Chandler C.J., Gear W.K., Chini R., Dust emission associated with DR21(OH), **260**, 337
 Chandler C.J., Moore T.J.T., Mountain C.M., Yamashita T., The excitation and kinematics of DR21(OH) from observations of CS, **261**, 694
 Chandrasekhar T. *see* Raju K.P.
 Charles P.A. *see* Casares J.
 Charles P.A. *see* Shahbaz T.
 Chase S.T. *see* Clements D.L.
 Chen A. *see* Buckley D.A.H.
 Chen A. *see* O'Donoghue D.
 Chen A. *see* Stobie R.S.
 Cheng K.S., Ding K.Y., Gamma-ray emission from the reignited magnetospheres of dead pulsars: a possible source of gamma-ray bursts, **262**, 1037
 Chincarini G. *see* Iovino A.
 Chini R. *see* Chandler C.J.
 Christensen-Dalsgaard J., Hansen P.C., Thompson M.J., Generalized singular value decomposition analysis of helioseismic inversions, **264**, 541
 Chrysostomou A. *see* Ramsay S.K.
 Chrysostomou A., Brand P.W.J.L., Burton M.G., Moorhouse A., Physical conditions in photodissociation regions: M17 northern bar, **265**, 329
 Church M.J., Balucinska-Church M., Cosmic-abundance absorption dips in XI755–33, **260**, 59
 Church S.E., Lasenby A.N., Hills R.E., An upper limit on the fine-scale anisotropy of the cosmic background radiation at 800 μm, **261**, 705
 Cimatti A., di Serego Alighieri S., Fosbury R.A.E., Salvati M., Taylor D., Optical polarization in distant radio galaxies, **264**, 421
 Cimatti A., Zamorani G., Marano B., Optical variability of faint quasars, **263**, 236
 Clark T.A. *see* Naylor D.A.
 Clarke C.J. *see* McDonald J.M.
 Clarke C.J. *see* Murray S.D.
 Clarke C.J. *see* Syer D.
 Clarke C.J., Pringle J.E., Accretion disc response to a stellar fly-by, **261**, 190
 Clausen J.V. *see* Bell S.A.
 Clavel J. *see* Sanz J.L.
 Claver C.F. *see* Krisciunas K.
 Clayton C.A. *see* Meaburn J.
 Clayton G.C., Lawson W.A., Whitney B.A., Pollacco D.L., High-velocity spectral features in V854 Centauri: evidence for dust formation?, **264**, L13
 Clementini G. *see* Ferraro F.R.
 Clements D.L. *see* Rowan-Robinson M.
 Clements D.L. *see* Simpson C.
 Clements D.L., Andreani P., Chase S.T., Submillimetre observations of galaxies – I. First results, **261**, 299
 Clements D.L., van der Werf P.P., Krabbe A., Blietz M., Genzel R., Ward M.J., Extended Hα emission from IRAS F10214 + 4724: starburst or active galactic nucleus?, **262**, L23
 Clube S.M. *see* Asher D.J.
 Coates D.W. *see* Anders G.J.
 Coe M.J. *see* Evarall C.
 Coe M.J. *see* Norton A.J.
 Coe M.J., Evarall C., Norton A.J., Roche P., Unger S.J., Fabregat J., Reglero V., Grunsfeld J.M., Infrared and optical observations of the newly identified Be/X-ray binary LSI + 61° 235, **261**, 599
 Cole R.E. *see* Pounds K.A.
 Cole S. *see* Lacey C.
 Coleman C.S. *see* Kumar S.
 Coles P. *see* Davies A.
 Coles P. *see* Plionis M.
 Coles P., Davies A., Three-point correlations of peaks in cosmological density fields, **264**, 261
 Coles P., Galaxy formation with a local bias, **262**, 1065
 Coles P., Melott A.L., Shandarin S.F., Testing approximations for non-linear gravitational clustering, **260**, 765
 Coles P., Moscardini L., Lucchin F., Matarrese S., Messina A., Skewness as a test of non-Gaussian primordial density fluctuations, **264**, 749
 Coles P., Moscardini L., Plionis M., Lucchin F., Matarrese S., Messina A., Topology in two dimensions – IV. CDM models with non-Gaussian initial conditions, **260**, 572
 Colina L., Pérez-Olea D., Corrigendum: On the origin of the radio emission in IRAS galaxies with high and ultrahigh luminosity: the starburst-AGN controversy, **262**, 543
 Colless M. *see* Saglia R.P.

- Colless M., Burstein D., Wegner G., Saglia R.P., McMahan R., Davies R.L., Bertschinger E., Bagley G., Photoelectric and CCD photometry of E and S0 galaxies, **262**, 475
Colless M., Ellis R.S., Broadhurst T.J., Taylor K., Peterson B.A., Faint blue galaxies: high or low redshift?, **261**, 19
Collett J.L. *see* Evans N.W.
Collier Cameron A. *see* Hendry M.A.
Collier Cameron A. *see* Jianke L.
Collier Cameron A. *see* O'Dell M.A.
Collins C. *see* Caldwell J.A.R.
Collins C.A. *see* Nichol R.C.
Combes F. *see* Leeuw F.
Condon J.J. *see* Lawrence A.
Condon J.J. *see* Rowan-Robinson M.
Conrow T. *see* Lawrence A.
Conrow T. *see* Rowan-Robinson M.
Coppi P., Blandford R.D., Rees M.J., Anisotropic induced Compton scattering – constraints on models of active galactic nuclei, **262**, 603
Costa R.D.D. *see* de Freitas Pacheco J.A.
Couch W.J. *see* Aragón-Salamanca A.
Couch W.J. *see* Boyle B.J.
Couch W.J., Jurcevic J.S., Boyle B.J., Evolution of galaxy clustering: new data on the angular correlation function of faint galaxies, **260**, 241
Couchman H.M.P. *see* Pearce F.R.
Courtier M. *see* Pounds K.A.
Courvoisier T.J.-L. *see* Robson E.I.
Coziol R., Peña M., Demers S., Torres-Peimbert S., MBG 02223–1922: a newly identified luminous Seyfert galaxy, **261**, 170
Cragg D.M. *see* Bettens R.P.A.
Cragg D.M., Mekhtiev M.A., Bettens R.P.A., Godfrey P.D., Brown R.D., Line strengths of methanol by the internal axis method, **264**, 769
Cram L.E. *see* Beasley A.J.
Cram L.E. *see* Gray A.D.
Crammer S.R., Some aspects of illuminated model atmosphere theory as applied to close binary systems, **263**, 989
Crawford C.S., Fabian A.C., A ROSAT observation of the powerful distant radio galaxy 3C 356, **260**, L15
Crawford C.S., Fabian A.C., On the nature of the blue light in central cluster galaxies, **265**, 431
Creighton J. *see* Leahy D.A.
Cristiani S. *see* Andreani P.
Cropper M. *see* Bailey J.
Cropper M., Wickramasinghe D.T., Cyclotron humps in AM Her systems – V. Two poles in DP Leo, **260**, 696
Cropper M.S. *see* Ramsay G.
Crossas M., Weisheit J.C., Hydrogen molecules in quasar broad-line regions, **262**, 359
Cruise A.M. *see* Ercan E.N.
Cruise A.M. *see* Pounds K.A.
Cruise A.M., Extreme-ultraviolet and low-energy X-ray scattering from interstellar dust, **265**, 881
Cuddeford P., On the potentials of galactic discs, **262**, 1076
Culhane J.L. *see* Pounds K.A.
Cumming R.J. *see* Caldwell J.A.R.
Cumming R.J. *see* Meikle W.P.S.
Cumming R.J., Meikle W.P.S., Cold bright matter near supernova 1987A, **262**, 689
Cunningham C. *see* Dent W.R.F.
Cuypers J. *see* Balona L.A.
Czerny B. *see* Lehto H.J.
Czerny B. *see* Loska Z.

da Costa L.N. *see* Piran T.
Daines S.J. *see* Allen S.W.
D'Alessandro F., McCulloch P.M., King E.A., Hamilton P.A., McConnell D., Timing observations of southern pulsars – 1987 to 1991, **261**, 883
D'Amico N., Bailes M., Lyne A.G., Manchester R.N., Johnston S., Fruchter A.S., Goss W.M., PSR B1802–07: a globular cluster pulsar in an eccentric binary system, **260**, L7
Danese L. *see* Franceschini A.
Danziger I.J. *see* Carollo C.M.
Danziger I.J. *see* Tadhunter C.N.

Danziger I.J. *see* Turatto M.
Danziger J. *see* Liu X.
Das Gupta P., Narlikar J.V., Gravitational waves from mini-creation events, **264**, 489
Davies A. *see* Coles P.
Davies A., Coles P., The three-point correlation function of rich clusters: the reliability of determinations from small samples, **262**, 591
Davies A., Coles P., Topology in two dimensions – III. Modelling projected galaxy catalogues, **260**, 553
Davies J. *see* Phillips S.
Davies J.I. *see* Turner J.A.
Davies J.I., Phillips S., Boyce P.J., Disney M.J., Selection effects or high opacity? Understanding the surface brightness distribution of inclined disc galaxies, **260**, 491
Davies J.K., Mumma M.J., Reuter D.C., Hoban S., Weaver H.A., Puxley P.J., Lumsden S.L., The infrared (3.2–3.6 μm) spectrum of comet P/Swift-Tuttle: detection of methanol and other organics, **265**, 1022
Davies R.D. *see* Montgomery A.S.
Davies R.L. *see* Colless M.
Davies R.L. *see* Saglia R.P.
Davies R.L., Sadler E.M., Peletier R.F., Line-strength gradients in elliptical galaxies, **262**, 650
Davies S.R. *see* Dent W.R.F.
Davis C.J., Dent W.R.F., Molecular observations of HH34: does NH₃ accurately trace dense molecular gas near young stars?, **261**, 371
Davis G.R. *see* Naylor D.A.
Davis R.J. *see* Spencer R.E.
Day C.S.R. *see* George I.M.
de Araújo F.X. *see* de Freitas Pacheco J.A.
de Araújo J.C.N. *see* de Freitas Pacheco J.A.
de Bruyn A.G. *see* Kukula M.J.
de Freitas Pacheco J.A., Costa R.D.D., de Araújo F.X., Petrini D., Mass-loss rates and C/He ratios in the winds of the WC central stars of planetary nebulae, **260**, 401
de Freitas Pacheco J.A., Horvath J.E., de Araújo J.C.N., Cattani M., The effects of QCD parameters on the quark core dimensions in compact stars, **260**, 499
de Gouveia Dal Pino E.M., Opher R., Are the filaments formed by synchrotron thermal instability bright?, **263**, 687
de Kool M., Anzer U., A simple analysis of period noise in binary X-ray pulsars, **262**, 726
de Kool M., On the radio properties of broad-absorption-line QSOs, **265**, L17
de la Cruz C.G. *see* van Haarlem M.P.
De Luca M., Blanco A., Orofino V., Far-infrared emission from dust in the Bok globule Barnard 335, **262**, 805
de Zeeuw T., Pfenniger D., Erratum: Potential-density pairs for galaxies, **262**, 1087
De Zotti G. *see* Franceschini A.
Deeter J.E. *see* Baykal A.
Dehnen W., A family of potential-density pairs for spherical galaxies and bulges, **265**, 250
Dehnen W., Gerhard O.E., Three-integral models of oblate elliptical galaxies, **261**, 311
Della Valle M. *see* Turatto M.
Demers S. *see* Coziol R.
Demers S., Irwin M.J., Deep CCD photometry of the dwarf spheroidal galaxy Leo II, **261**, 657
Demers S., Irwin M.J., Kunkel W.E., Very red stars between the Magellanic Clouds: discovery of carbon stars in the outer LMC and SMC haloes, **260**, 103
Denby M. *see* Hoare M.G.
Denby M. *see* Pounds K.A.
Dent W.R.F. *see* Davis C.J.
Dent W.R.F., Cunningham C., Hayward R., Davies S.R., Wade D., Avery L.W., Mayer C.J., Masuda N.T., HCO⁺ emission in the HH7–11 region: the slowest component of the outflow?, **262**, L13
Desai J.N. *see* Raju K.P.
Dewey R.J. *see* Lorimer D.R.
di Serego Alighieri S. *see* Cimatti A.
di Serego Alighieri S. *see* Prieto M.A.
di Serego Alighieri S. *see* Tadhunter C.N.

- Diamond C.J. *see* Barstow M.A.
Diaz A.I. *see* Pastoriza M.G.
Diaz A.I. *see* Terlevich E.
Dickinson C.J. *see* Bettens R.P.A.
Dieters S.W.B. *see* Greenhill J.G.
Diethelm R. *see* Wolf M.
Ding K.Y. *see* Cheng K.S.
Disney M.J. *see* Davies J.I.
Disney M.J. *see* Phillips S.
Disney M.J. *see* Turner J.A.
Dixon R.I., Longmore A.J., Fundamental parameters for M4, the nearest globular cluster, **265**, 395
Djameluddin T. *see* Yamada T.
Djorgovski S. *see* Santiago B.X.
Dobrzycki A. *see* Frye B.L.
Doi M., Fukugita M., Okamura S., Morphological classification of galaxies using simple photometric parameters, **264**, 832
Dome C. *see* George I.M.
Done C. *see* King A.R.
Done C. *see* Smith D.A.
Donner K.J., Sundelius B., Dynamical friction in disc galaxies, **265**, 88
D'Onofrio M. *see* Caon N.
Donoghue D.O. *see* Pounds K.A.
Dopita M.A. *see* Wickramasinghe D.T.
Dotani T. *see* Sansom A.E.
Dotani T. *see* van der Klis M.
Dottori H.A. *see* Pastoriza M.G.
Draper P.W. *see* Lawrence A.
Draper P.W. *see* Scarrott S.M.
Draper P.W., Scarrott S.M., Tadhunter C.N., The optical polarization of the low-redshift radio galaxies 3CR 33, 305, 321 and 459, **262**, 1029
Drew J.E. *see* Hoare M.G.
Drew J.E. *see* Rawlings J.M.C.
Drew J.E., Bunn J.C., Hoare M.G., Constraints on the outflow in Si106IR from He I 2.058- μ m absorption-line and H I emission-line profiles, **265**, 12
Drew J.E., Jones D.H.P., Woods J.A., The donor star of the long-period dwarf nova DX Andromedae, **260**, 803
Drissen L. *see* Wickramasinghe D.T.
Drukier G.A., NGC 6397: a case study in the resolution of post-collapse globular cluster cores, **265**, 773
Dubal M.R., Pantano O., The steady-state structure of relativistic magnetic jets, **261**, 203
Dudley R.E., Jeffery C.S., Improved effective temperatures for hydrogen-deficient binary stars, **262**, 945
Duerbeck H.W., Grebel E.K., Recovery of the classical nova AR Cir, **265**, L9
Duffett-Smith P.J. *see* Woan G.
Dufton P.L. *see* Lanzafame A.C.
Duley W.W., Jones A.P., Taylor S.D., Williams D.A., Infrared emission from hydrogenated amorphous carbon and amorphous carbon grains in the interstellar medium, **260**, 415
Duley W.W., Williams D.A., The formation of H₂ on interstellar dust, **260**, 37
Duncan A.R., Stewart R.T., Haynes R.F., H α position determination of the binary Circinus X-1, **265**, 157
Duncan S.P.R. *see* Tobin W.
Duncan S.P.R., Tobin W., Watson R.D., Gilmore A.C., CCD photometry of variable stars in the Magellanic Clouds - IV. The eclipsing binary HV 1761 and nearby field variables, **265**, 189
Duncan W.D. *see* Naylor D.A.
Dunford E. *see* Pounds K.A.
Dunlop J.S. *see* Hughes D.H.
Dunlop J.S., Peacock J.A., Luminosity dependence of optical activity and alignments in radio galaxies, **263**, 936
Dunlop J.S., Taylor G.L., Hughes D.H., Robson E.I., Infrared imaging of the host galaxies of radio-loud and radio-quiet quasars, **264**, 455
Dunn A.M., Laflamme R., The least action principle and the spin of galaxies in the Local Group, **264**, 865
Duquet J.-R. *see* Pineault S.
Durdin J.M. *see* Siegman B.C.
Dyson J.E. *see* Arthur S.J.
Dyson J.E. *see* Wang L.
Dyson J.E., Hartquist T.W., Biro S., Mass-loaded astronomical flows - V. Tails: intermediate-scale structures in flowing clumpy media, **261**, 430
Dziembowski W.A., Moskalik P., Pamatyukh A.A., The opacity mechanism in B-type stars - II. Excitation of high-order g-modes in main-sequence stars, **265**, 588
Dziembowski W.A., Pamatyukh A.A., The opacity mechanism in B-type stars - I. Unstable modes in β Cephei star models, **262**, 204
Ebisa K. *see* Yaqoob T.
Edge A. *see* Grainge K.
Edge A.C. *see* Allen S.W.
Edge A.C. *see* Böhringer H.
Edmunds M.G. *see* Vila-Costas M.B.
Edmunds M.G., Roy J.-R., The co-existence of spiral structure and abundance gradients, **261**, L17
Edwin R.P. *see* Bell S.A.
Efstathiou A. *see* Rowan-Robinson M.
Efstathiou G. *see* Baugh C.M.
Efstathiou G. *see* White S.D.M.
Efstathiou G.P. *see* Lawrence A.
Efstathiou J. *see* Buchert T.
Eichler D. *see* Nath B.B.
Einasto J., Gramann M., Saar E., Tago E., Power spectrum of the matter distribution in the Universe on large scales, **260**, 705
Ekers R.D. *see* Subrahmanyam R.
Elliott K.H. *see* Jeffries R.D.
Ellis R.S. *see* Aragón-Salamanca A.
Ellis R.S. *see* Colless M.
Ellis R.S. *see* Lawrence A.
Ellis R.S. *see* Mobasher B.
Ellis R.S. *see* Rowan-Robinson M.
Ellis R.S. *see* Smail I.
Elsworth Y., Howe R., Isaak G.R., McLeod C.P., Miller B.A., New R., Speake C.C., Wheeler S.J., The variation in the strength of low-/ solar p-modes: 1981-92, **265**, 888
Engels D. *see* Lewis B.M.
Ercan E.N., Cruise A.M., Kellett B.J., Saygili K., Ginga observations of X1820-303 in the globular cluster NGC 6624, **262**, 511
Evans A. *see* Ivison R.J.
Evans D.W. *see* Warren S.J.
Evans N.W., Collett J.L., Simple discs with flat rotation curves, **264**, 353
Evans N.W., Simple galaxy models with massive haloes, **260**, 191
Everall C. *see* Coe M.J.
Everall C., Coe M.J., Norton A.J., Roche P., Unger S.J., K-band spectroscopy of Be-star X-ray binaries, **262**, 57
Fabian A.C. *see* Allen S.W.
Fabian A.C. *see* Böhringer H.
Fabian A.C. *see* Brandt W.N.
Fabian A.C. *see* Celotti A.
Fabian A.C. *see* Carrera F.J.
Fabian A.C. *see* Crawford C.S.
Fabian A.C. *see* George I.M.
Fabian A.C. *see* Ghisellini G.
Fabian A.C. *see* Matt G.
Fabian A.C. *see* Nandra K.
Fabian A.C. *see* Padovani P.
Fabian A.C. *see* Ross R.R.
Fabian A.C., Podsiadlowski P., The Magellanic Clouds as the source of gamma-ray bursters, **263**, 49
Fabian A.C., Ward M.J., ROSAT PSPC observations of the extragalactic H II region NGC 5408, **263**, L51
Fabregat J. *see* Coe M.J.
Fabrika S.N., An extended disc around SS 433, **261**, 241
Fadeyev Yu.A., Non-linear radial pulsations of hot extreme helium stars, **262**, 119
Fairall A.P. *see* Caldwell J.A.R.
Falle S.A.E.G. *see* Arthur S.J.
Falle S.A.E.G., Raga A.C., The structure of knots in variable stellar jets - I. Symmetric knots, **261**, 573
Fasano G., Amico P., Bertola F., Vio R., Zeilinger W.W., The intrinsic shapes of galactic discs, **262**, 109
Feast M.W. *see* Caldwell J.A.R.

- Feldman P.A. *see* Preston K.E.
Ferguson H.C., A test for dust in clusters of galaxies, **263**, 343
Fernie J.D., Lawson W.A., The pulsational nature of R Coronae Borealis: light and radial velocity variations during 1990 and 1991, **265**, 899
Fernley J.A. *see* Skillen I.
Ferrari-Toniolo M. *see* Scaltriti F.
Ferrario L. *see* Bailey J.
Ferrario L. *see* Wickramasinghe D.T.
Ferrario L., Bailey J., Wickramasinghe D.T., Detection of cyclotron emission features in the infrared spectrum of ST LMi, **262**, 285
Ferrario L., Wickramasinghe D.T., A model for the optical continuum and Balmer emission lines in intermediate polars, **265**, 605
Ferrario L., Wickramasinghe D.T., King A.R., The accretion curtain model for intermediate polars - I. A kinematical model for radial velocity and velocity dispersion, **260**, 149
Ferraro F.R., Clementini G., Fusi Pecci F., Vitiello E., Buonanno R., On the giant, horizontal and asymptotic branches of Galactic globular clusters - V. CCD photometry of NGC 1261, **264**, 273
Fesen R.A., Staker B., The structure and motion of the Crab nebula jet, **263**, 69
Fiddick R.J. *see* Smith R.C.
Finley D.S. *see* Barstow M.A.
Fitt A.J., Alexander P., Magnetic fields in late-type galaxies, **261**, 445
Fitzsimmons A. *see* Lagerkvist C.-I.
Flanagan C.S., A second giant glitch in PSR 1641-45, **260**, 643
Fleming T.A. *see* Barstow M.A.
Fleming T.A. *see* Hodgkin S.T.
Flower D.R. *see* Heck E.L.
Flower D.R. *see* Pineau des Forets G.
Foley N.B., Gledhill T.M., Scarrott S.M., Wolstencroft R.D., The illumination of the GGD 30 nebulosity, **262**, 175
Folgheraier E.L., Penny A.J., Griffiths W.K., The chemical inhomogeneity of M13, **264**, 991
Fong R. *see* Roche N.
Fosbury R.A.E. *see* Cimatti A.
Fosbury R.A.E. *see* Prieto M.A.
Fosbury R.A.E. *see* Tadhunter C.N.
Fox G.K., A polarimetric investigation of a magnetically driven Be star wind, **260**, 525
Fox G.K., The scattering of polarized radiation through optically thin circumstellar envelopes, **260**, 513
Fox G.K., The theoretical polarization from axisymmetric circumstellar envelopes with constant scattering optical depth, **264**, 565
Franceschini A., Martin-Mirone J.M., Danese L., De Zotti G., Hard and soft X-ray selected active galactic nuclei: two distinct populations?, **264**, 35
Franco J. *see* Rózyczka M.
Freeman C.G. *see* Petrie S.
Freeman F.F. *see* Caldwell J.A.R.
Frenk C.S. *see* Moore B.
Frenk C.S. *see* Salucci P.
Frenk C.S. *see* White S.D.M.
Friberg P. *see* Hawarden T.G.
Fricke K.J. *see* Glatzel W.
Fricke K.J. *see* Kiriakidis M.
Fromherz T., Mendoza C., Ruette F., Chemisorption of atomic H, C, N and O on a cluster-model graphite surface, **263**, 851
Fruchter A.S. *see* D'Amico N.
Frye B.L., Bechtold J., Moustakas L.A., Dobrzycki A., Absorption spectra of Q 0000-263 and 1442+101, **263**, 575
Fukugita M. *see* Doi M.
Fullana M.J. *see* Sáez D.
Fusi Pecci F. *see* Ferraro F.R.

Gameiro J.F., Lago M.T.V.T., Lima N.M., Cameron A.C., Optical and ultraviolet observations of the star LkHα 264, **261**, 11
Gameiro J.F., Lago M.T.V.T., Rotational velocities for T Tauri stars with strong emission lines, **265**, 359
Gangadhara R.T., Krishan V., Shukla P.K., The modulation of radiation in an electron-positron plasma, **262**, 151
García Vargas M.L. *see* Terlevich E.

Gardner F.F. *see* Caswell J.L.
Garlick M.A. *see* Hellier C.
Garzón F., Hammersley P.L., Mahoney T., Calbet X., Selby M.J., Hepburn I.D., A two-micron Galactic survey, **264**, 773
Gautschy A., Pulsating post-asymptotic giant branch stars, **265**, 340
Gautschy A., Saio H., On non-radial oscillations of B-type stars, **262**, 213
Gaylard M.J. *see* MacLeod G.C.
Gaylard M.J. *see* Schutte A.J.
Gaylard M.J., MacLeod G.C., New detections of 6.6-GHz S_{1-6_0} A^+ -methanol emission towards southern hydroxyl masers, **262**, 43
Gear W.K. *see* Chandler C.J.
Gear W.K. *see* Hughes D.H.
Gear W.K. *see* McHardy I.M.
Gear W.K. *see* Robson E.I.
Gear W.K., Are there two populations of BL Lac objects?, **264**, 919
Gear W.K., Millimetre observations of X-ray-selected BL Lacs, **264**, L21
Geballe T.R. *see* Krisciunas K.
Geballe T.R. *see* Ramsay S.K.
Gelb J.M. *see* Katz N.
Genzel R. *see* Clements D.L.
Georgantopoulos I. *see* Boyle B.J.
Georgantopoulos I. *see* Pounds K.A.
Georgantopoulos I., Stewart G.C., Shanks T., Griffiths R.E., Boyle B.J., A deep ROSAT survey - II. Observations of the isotropy of the 1-2 keV X-ray background, **262**, 619
George I.M. *see* Nandra K.
George I.M., Nandra K., Fabian A.C., Turner T.J., Done C., Day C.S.R., The broad-band X-ray spectral variability of Mrk 841, **260**, 111
Georgiev L.N. *see* Kaltcheva N.T.
Gerhard O.E. *see* Dehnen W.
Gerhard O.E., Line-of-sight velocity profiles in spherical galaxies: breaking the degeneracy between anisotropy and mass, **265**, 213
Ghisellini G. *see* Padovani P.
Ghisellini G., Haardt F., Fabian A.C., On re-acceleration, pairs and the high-energy spectrum of AGN and Galactic black hole candidates, **263**, L9
Ghosh T. *see* Kukula M.J.
Gieren W.P., Surface brightness distance determinations to the Large Magellanic Cloud Cepheid variables HV 899 and 2257, **265**, 184
Gilmore A.C. *see* Duncan S.P.R.
Gilmore A.C. *see* Tobin W.
Gilmore G. *see* Kroupa P.
Gilmore G. *see* Matthews R.
Giovanelli R. *see* Iovino A.
Giraud E. *see* Smail I.
Glatzel W. *see* Kiriakidis M.
Glatzel W., Kiriakidis M., Fricke K.J., On the stability and pulsations of Wolf-Rayet stars, **262**, L7
Glatzel W., Kiriakidis M., Stability of massive stars and the Humphreys-Davidson limit, **263**, 375
Glatzel W., Kiriakidis M., The stability of massive main-sequence stars, **262**, 85
Gledhill T.M. *see* Foley N.B.
Goad M.R., O'Brien P.T., Gondhalekar P.M., Response functions as diagnostics of the broad-line region in active galactic nuclei, **263**, 149
Gohermann J. *see* Hanuschik R.W.
Godfrey P.D. *see* Bettens R.P.A.
Godfrey P.D. *see* Cragg D.M.
Godkowsky W., Galactic orientation within the Local Supercluster, **265**, 874
Goldwirth D.S. *see* Piran T.
Gómez G., López R., Late-time spectral evolution of the Type II supernova 1990E in NGC 1035, **263**, 767
Gondhalekar P.M. *see* Goad M.R.
Gondhalekar P.M. *see* Pounds K.A.
Goodall C.V. *see* Pounds K.A.
Gopal-Krishna, Sagar R., Witte P.J., A search for intra-night optical variability in radio-quiet QSOs, **262**, 963
Goss W.M. *see* D'Amico N.
Goss W.M. *see* Gray A.D.

- Goss W.M. *see* Subrahmanyam R.
 Gough D.O., Kosovichev A.G., The influence of low-degree p -mode frequencies on the determination of the structure of the solar interior, **264**, 522
 Gouffes C. *see* Turatto M.
 Gourlay J.A. *see* Pounds K.A.
 Governato F., Reduzzi L., Rampazzo R., Can isophotal shape discriminate between possible origins of elliptical galaxies?, **261**, 379
 Grainge K., Jones M., Pooley G., Saunders R., Edge A., Detection of the Sunyaev-Zel'dovich effect in Abell 773, **265**, L57
 Gramann M. *see* Einasto J.
 Gray A.D., Whiteoak J.B.Z., Cram L.E., Goss W.M., Radio continuum observations of Sgr E, **264**, 678
 Grebel E.K. *see* Duerbeck H.W.
 Green A.R., McHardy I.M., Lehto H.J., On the nature of rapid X-ray variability in active galactic nuclei, **265**, 664
 Green D.A. *see* Hales S.E.G.
 Green D.A. *see* Pooley G.G.
 Green D.A. *see* Wilding T.
 Green D.A., Padman R., A survey of H I in Orion - II. Large-scale features and the lack of evidence for rotation, **263**, 535
 Greenhill J.G., Sharma D.P., Dieters S.W.B., Sood R.K., Waldron L., Storey M.C., Observations and modelling of the hard X-ray emission from GX 1 + 4, **260**, 21
 Griffin I.P., A model for the circumstellar envelope of WX Ser, **260**, 831
 Griffiths R.E. *see* Boyle B.J.
 Griffiths R.E. *see* Georgantopoulos I.
 Griffiths W.K. *see* Folgeraiter E.L.
 Grunsfeld J.M. *see* Coe M.J.
 Guiderdoni B. *see* Kauffmann G.
 Guinan E.F. *see* Krisciunas K.
 Guzmán R., Lucey J.R., A new, age-independent distance indicator for elliptical galaxies, **263**, L47
 Guzmán R., Lucey J.R., Bower R.G., The fundamental relations of elliptical galaxies, **265**, 731
 Guzzo L. *see* Iovino A.
 Haardt F. *see* Ghisellini G.
 Haardt F., Matt G., X-ray polarization in the two-phase model for AGN and X-ray binaries, **261**, 346
 Hacking P. *see* Lawrence A.
 Hacking P. *see* Rowan-Robinson M.
 Hadrava P. *see* Bičák J.
 Haehnelt M.G., High-redshift quasars and alternative spectra for primeval density fluctuations, **265**, 727
 Haehnelt M.G., Rees M.J., The formation of nuclei in newly formed galaxies and the evolution of the quasar population, **263**, 168
 Hakala P.J. *see* Rosen S.R.
 Hakala P.J., Watson M.G., Vilhu O., Hassall B.J.M., Kellett B.J., Mason K.O., Pirola V., The discovery of a new bright eclipsing AM Her system, **263**, 61
 Hales S.E.G., Baldwin J.E., Warner P.J., The 6C survey of radio sources - VI. The continuous zone $30^\circ < \delta < 51^\circ$, $0^\circ < \alpha < 09^\mathrm{h}05^\mathrm{m}$ and $22^\mathrm{h}35^\mathrm{m} < \alpha < 24^\mathrm{h}$, **263**, 25
 Hales S.E.G., Masson C.R., Warner P.J., Baldwin J.E., Green D.A., The 6C survey of radio sources - V. The zones 6C-Va ($48^\circ < \delta < 68^\circ$, $01^\mathrm{h}34^\mathrm{m} < \alpha < 06^\mathrm{h}14^\mathrm{m}$) and 6C-Vb ($48^\circ < \delta < 68^\circ$, $17^\mathrm{h}16^\mathrm{m} < \alpha < 20^\mathrm{h}24^\mathrm{m}$), **262**, 1057
 Hamby N.C. *see* Steele I.A.
 Hamilton P.A. *see* D'Alessandro F.
 Hammer F. *see* Wu X.-P.
 Hammersley P.L. *see* Garzón F.
 Hansen P.C. *see* Christensen-Dalsgaard J.
 Hanuschik R.W., Spyromilio J., Stathakis R., Kimeswenger S., Goherman J., Seidensticker K.J., Meurer G., Clumps in Supernova 1987A: the H α line, **261**, 909
 Harding A.K., Ozernoy L.M., Usov V.V., Geminga: origins of its X-ray and gamma-ray emission, **265**, 921
 Harris A.I. *see* Richer J.S.
 Harris A.W. *see* Pounds K.A.
 Harrison P.A. *see* Lorimer D.R.
 Harrison P.A., Lyne A.G., Anderson B., New determinations of the proper motions of 44 pulsars, **261**, 113
 Harrison P.A., Lyne A.G., Pulsar velocities and the scaleheight of scattering in the Galaxy, **265**, 778
 Hartquist T.W. *see* Arthur S.J.
 Hartquist T.W. *see* Dyson J.E.
 Hartquist T.W. *see* Taylor S.D.
 Hasegawa T., Umemura M., Luminosity dependence of galaxy clustering in extinction-corrected CfA data, **263**, 191
 Hasegawa T.I., Herbst E., New gas-grain chemical models of quiescent dense interstellar clouds: the effects of H₂ tunnelling reactions and cosmic ray induced desorption, **261**, 83
 Hasegawa T.I., Herbst E., Three-phase chemical models of dense interstellar clouds: gas, dust particle mantles and dust particle surfaces, **263**, 589
 Hasinger G. *see* van der Klis M.
 Hassall B.J.M. *see* Buckley D.A.H.
 Hassall B.J.M. *see* Hakala P.J.
 Hassall B.J.M. *see* Jomaron C.M.
 Hassall B.J.M. *see* O'Donoghue D.
 Hassall B.J.M. *see* Pounds K.A.
 Hatzidimitriou D., Cannon R.D., Hawkins M.R.S., Kinematics in the outer parts of the SMC, **261**, 873
 Hawarden T.G., Sandell G., Matthews H.E., Friberg P., Watt G.D., Smith P.A., Structure of NGC 5128 (Centaurus A) at submillimetre wavelengths, **260**, 844
 Hawkins M.R.S. *see* Hatzidimitriou D.
 Hawkins M.R.S., Véron P., The quasar luminosity function from a variability-selected sample, **260**, 202
 Hawkins N.A. *see* Smith R.C.
 Hayashida K. *see* Carrera F.J.
 Haynes M. *see* Iovino A.
 Haynes R.F. *see* Duncan A.R.
 Haynes R.F. *see* Milne D.K.
 Haynes R.F. *see* Stewart R.T.
 Hayward R. *see* Dent W.R.F.
 Heavens A.F. *see* Mann R.G.
 Heavens A.F., Galaxy redshifts: improved techniques, **263**, 735
 Heck E.L., Flower D.R., Le Bourlot J., Pineau des Forets G., Roueff E., Models of the σ Per diffuse interstellar cloud, **262**, 795
 Hellaby C. *see* Lynden-Bell D.
 Hellier C. *see* Pounds K.A.
 Hellier C., Buckley D.A.H., TV Columbae in outburst: a mass transfer event?, **265**, 766
 Hellier C., Disc-overflow accretion in the intermediate polar FO Aquarii, **265**, L35
 Hellier C., Garlick M.A., Mason K.O., X-ray orbital modulations in intermediate polars, **260**, 299
 Hellier C., The four periodicities of the cataclysmic variable TV Columbae, **264**, 132
 Hendry M.A., O'Dell M.A., Collier Cameron A., A new method for estimating the distance of young open clusters, **265**, 983
 Henry J.P. *see* White S.D.M.
 Henry R.B.C., Refractory element depletion and the determination of abundances in H II regions, **261**, 306
 Hepburn I.D. *see* Garzón F.
 Herbst E. *see* Hasegawa T.I.
 Hernández-Pajares M., Can a local bulge be differentiated?, **264**, 1
 Hernquist L., Weil M.L., Spokes in ring galaxies, **261**, 804
 Herrera L. *see* Chan R.
 Hewett P.C. *see* Warren S.J.
 Hibbert A. *see* Stafford R.P.
 Higgs L.A. *see* Wendker H.J.
 Hilditch R.W. *see* Bell S.A.
 Hilditch R.W. *see* Reynolds A.P.
 Hill G. *see* Bell S.A.
 Hill G. *see* Reynolds A.P.
 Hill G.J. *see* Lacy M.
 Hills R.E. *see* Church S.E.
 Hills R.E. *see* Richer J.S.
 Hjorth J., Madsen J., Statistical mechanics of galaxies, **265**, 237
 Hoare M.G. *see* Drew J.E.
 Hoare M.G., Drew J.E., Denby M., The first measurement of the Lyman continuum emission from normal stars, **262**, L19

- Hoare M.G., Drew J.E., The ionization state of the winds from cataclysmic variables without classical boundary layers, **260**, 647
 Hoban S. *see* Davies J.K.
 Hobson M.P., Padman R., Radiative transfer in a clumpy medium – II. The mega-grains approximation for two-phase models, **264**, 161
 Hobson M.P., Padman R., Scott P.F., Prestage R.M., Ward-Thompson D., High-resolution millimetre and submillimetre continuum observations of M17SW – II. Identification of embedded sources associated with H₂O masers, **264**, 1025
 Hobson M.P., Scheuer P.A.G., Radiative transfer in a clumpy medium – I. Analytical Markov-process solution for an *N*-phase slab, **264**, 145
 Hodgkin S. *see* Pounds K.A.
 Hodgkin S.T. *see* Jomaron C.M.
 Hodgkin S.T. *see* Warwick R.S.
 Hodgkin S.T., Barstow M.A., Fleming T.A., Monier R., Pye J.P., *ROSAT/IUE* discovery of a white dwarf companion to HD 33959C (F4V), **263**, 229
 Holberg J.B. *see* Barstow M.A.
 Holmgren D. *see* Caldwell J.A.R.
 Horvath J.E. *see* de Freitas Pacheco J.A.
 Horvath J.E., Vucetic H., Benvenuto O.G., Strange-pulsar evolution and soft γ -repeaters, **262**, 506
 Hough J.H. *see* Bailey J.
 Hough J.H. *see* Inglis M.D.
 Hough J.H. *see* Wickramasinghe D.T.
 Hough J.H. *see* Young S.
 Houziaux L. *see* Andriallat Y.
 Howard L.N. *see* Balmforth N.J.
 Howe D.A., Millar T.J., Alternative routes to deuteration in dark clouds, **262**, 868
 Howe R. *see* Elsworth Y.
 Hudson M.J., Optical galaxies within 8000 km s⁻¹ – I. The density field, **265**, 43
 Hudson M.J., Optical galaxies within 8000 km s⁻¹ – II. The peculiar velocity of the Local Group, **265**, 72
 Hughes D.H. *see* Dunlop J.S.
 Hughes D.H. *see* Ivison R.J.
 Hughes D.H. *see* Robson E.I.
 Hughes D.H., Robson E.I., Dunlop J.S., Gear W.K., Thermal dust emission from quasars – I. Submillimetre spectral indices of radio-quiet quasars, **263**, 607
 Hughes D.W. *see* Williams I.P.
 Hughes D.W., McBride N., Boswell J., Jalowiczor P., On the variation of cometary coma brightness with comet-Earth distance (the Delta Effect), **263**, 247
 Hunter C., Qian E., Two-integral distribution functions for axisymmetric galaxies, **262**, 401
 Ida S., Kokubo E., Makino J., The origin of anisotropic velocity dispersion of particles in a disc potential, **263**, 875
 Igumenshchev I.V., Illarionov A.F., Kompaneets D.A., The outflowing regime of quasi-spherical accretion on to X-ray compact objects, **260**, 727
 Illarionov A.F. *see* Igumenshchev I.V.
 Inglis M.D., Brindle C., Hough J.H., Young S., Axon D.J., Bailey J.A., Ward M.J., Evidence for an obscured broad-line region in the early-type radio galaxy IC 5063, **263**, 895
 Inoue H. *see* Carrera F.J.
 Iovino A., Giovanelli R., Haynes M., Chincarini G., Guzzo L., Galaxy clustering, morphology and luminosity, **265**, 21
 Irwin M., Źytkow A.N., A variable star in the vicinity of the soft γ -ray repeater 1806–20, **263**, L1
 Irwin M.J. *see* Demers S.
 Irwin M.J. *see* Scholz R.-D.
 Irwin M.J. *see* Warren S.J.
 Isaak G.R. *see* Elsworth Y.
 Isler R.C. *see* Jupén C.
 Ivison R.J., Bode M.F., Evans A., Skopal A., Meaburn J., A multi-frequency study of symbiotic stars – III. Simultaneous ultraviolet and optical observations of AX Persei, **264**, 875
 Ivison R.J., Hughes D.H., Lloyd H.M., Bang M.K., Bode M.F., Millimetre and submillimetre continuum observations of Nova Cygni 1992: a new test of mass ejection models, **263**, L43
 Izvekova V.A. *see* Kuzmin A.D.
- Izvekova V.A., Kuzmin A.D., Lyne A.G., Shitov Yu. P., Smith F.G., Frequency dependence of characteristics of pulsars PSR 0031–07, 0320 + 39, 1133 + 16 and 2016 + 28, **261**, 865
- Jackson J.C., Relativistic hydrodynamics and gravitational instability revisited, **264**, 729
 Jalowiczor P. *see* Hughes D.W.
 Jameson R.F. *see* Skillen I.
 Jameson R.F. *see* Steele I.A.
 Jeffery C.S. *see* Dudley R.E.
 Jeffries R.D. *see* Anders G.J.
 Jeffries R.D. *see* Pounds K.A.
 Jeffries R.D., Bromage G.E., Gliese 841A: an EUV-selected chromospherically active binary system, **260**, 132
 Jeffries R.D., Elliott K.H., Kellett B.J., Bromage G.E., RE 0618 + 75: a very short-period, binary dMe system, **265**, 81
 Jeffries R.D., Jewell S.J., The kinematics of active late-type stars observed by the *ROSAT* Wide Field Camera, **264**, 106
 Jeffries R.D., Prominence activity on the rapidly rotating field star HD 197890, **262**, 369
 Jenkins C.R. *see* Carter D.
 Jerzykiewicz M. *see* Balona L.A.
 Jerzykiewicz M., Sterken C., The cause of variability of λ Columbae, **260**, 826
 Jewell S.J. *see* Jeffries R.D.
 Jewitt D. *see* Annis J.
 Jianke L., Collier Cameron A., Rotational evolution of solar-type stars with core-envelope decoupling, **261**, 766
 Jing Y.P. *see* Mo H.J.
 Johansson S. *see* Rosberg M.
 Johnstone S. *see* D'Amico N.
 Johnstone R.M. *see* Allen S.W.
 Jomaron C.M., Branduardi-Raymont G., Bromage G.E., Hassall B.J.M., Hodgkin S.T., Mason K.O., Naylor T., Watson M.G., RE1016–05: white dwarf binary discovered with the *ROSAT* Wide Field Camera, **264**, 219
 Jones A.P. *see* Duley W.W.
 Jones D.H.P. *see* Drew J.E.
 Jones J., Brown P., Sporadic meteor radiant distributions: orbital survey results, **265**, 524
 Jones J., Jones W., Comet Machholz and the Quadrantid meteor stream, **261**, 605
 Jones K. *see* Caldwell J.A.R.
 Jones L.R., Smith A., Angelini L., A detailed X-ray and radio study of the supernova remnant W44, **265**, 631
 Jones M. *see* Grainge K.
 Jones M.H., Rowan-Robinson M., A physical model for the *IRAS* zodiacal dust bands, **264**, 237
 Jones P.B., Rotation of the neutron-drip superfluid in pulsars: evidence for corotating vortices, **263**, 619
 Jones W. *see* Jones J.
 Jordan C. *see* Montesinos B.
 Jørgensen H.E., Kotok E., Naselsky P., Novikov I., Long distance correlations in the galaxy distribution and the nature of dark matter, **265**, 261
 Jorissen A. *see* Theuns T.
 Jupén C., Isler R.C., Träbert E., Solar identifications of Fe x–Fe xiv based on comparison with beam-foil, tokamak and laser-produced plasma spectra, **264**, 627
 Jurcevic J.S. *see* Couch W.J.
- Kahn F.D. *see* Lloyd H.M.
 Kahn F.D. *see* Wang L.
 Kahn F.D., Brett L., Magnetic reconnection in the disc and halo, **263**, 37
 Kaiser M.-E. *see* Lacy M.
 Kaltcheva N.T., Georgiev L.N., Strömgren and H β photometry of OB associations and open clusters – II. Tr 16 and Car OB2, **261**, 847
 Kaluzny J. *see* Mazur B.
 Kaluzny J., Krzeminski W., Contact binaries and SX Phe variables in the globular cluster NGC 4372, **264**, 785
 Kaluzny J., Mazur B., Krzeminski W., Discovery of 12 short-period eclipsing binaries in the old open cluster Berkeley 39, **262**, 49
 Kaluzny J., Ruciński S.M., Discovery of 17 variable stars in the old open cluster NGC 6791, **265**, 34

- Kanaan A. *see* Kurtz D.W.
 Karakula S. *see* Moskalenko I.V.
 Karas V. *see* Vokrouhlický D.
 Kato S., Wu Xue-bing, Yang Lan-tian, Yang Zhi-liang, Sonic point instability in disc accretion and types of stress tensor, **260**, 317
 Katz J. *see* Lynden-Bell D.
 Katz N., Quinn T., Gelb J.M., Galaxy formation and the peaks formalism, **265**, 689
 Kauffmann G., White S.D.M., Guiderdoni B., The formation and evolution of galaxies within merging dark matter haloes, **264**, 201
 Kauffmann G., White S.D.M., The merging history of dark matter haloes in a hierarchical universe, **261**, 921
 Kawai N. *see* Nakamura H.
 Kellett B.J. *see* Anders G.J.
 Kellett B.J. *see* Buckley D.A.H.
 Kellett B.J. *see* Ercan E.N.
 Kellett B.J. *see* Hakala P.J.
 Kellett B.J. *see* Jeffries R.D.
 Kellett B.J. *see* Pounds K.A.
 Kellett B.J. *see* Wonnacott D.
 Kemball A.J. *see* MacLeod G.C.
 Kembhavi A., X-ray beaming in radio quasars, **264**, 683
 Kemp S.N. *see* Montgomery A.S.
 Kent B.J. *see* Pounds K.A.
 Kerr T.H., Adamson A.J., Whittet D.C.B., Infrared spectroscopy of solid CO: the ρ Ophiuchi molecular cloud, **262**, 1047
 Kidder K. *see* Barstow M.A.
 Kii T. *see* Saxton R.D.
 Kilkenny D. *see* Lawson W.A.
 Kilkenny D. *see* Stobie R.S.
 Killeen N.E.B. *see* Morganti R.
 Kimeswenger S. *see* Hanuschik R.W.
 King A.R. *see* Ferrario L.
 King A.R., Done C., Stellar accretion in active galactic nuclei, **264**, 388
 King A.R., The accretion of diamagnetic blobs by a rotating magnetosphere, **261**, 144
 King A.R., The evolutionary status of the black hole candidate V404 Cygni, **260**, 15
 King E.A. *see* D'Alessandro F.
 King L.J. *see* Patnaik A.R.
 Kiriakidis M. *see* Glatzel W.
 Kiriakidis M., Fricke K.J., Glatzel W., The stability of massive stars and its dependence on metallicity and opacity, **264**, 50
 Kiseleva L., Orlov V., The character of internal motions in galaxy triplets, **260**, 475
 Kitamoto S. *see* Nakamura H.
 Kochanek C.S., Analytic results for the gravitational lens statistics of singular isothermal spheres in general cosmologies, **261**, 453
 Kochhar R.K. *see* Namboodiri P.M.S.
 Koen C. *see* Lombard F.
 Koen C. *see* Martinez P.
 Koen C., Lombard F., The analysis of indexed astronomical time series – I. Basic methods, **263**, 287
 Koen C., Observation of Beta Cephei candidates in the Jewel Box, **264**, 165
 Koen C., Transfer function analysis of ultraviolet observations of NGC 5548, **262**, 823
 Koester D. *see* Barstow M.A.
 Kohmura Y. *see* Warwick R.S.
 Koike C., Shibai H., Tuchiyama A., Extinction of olivine and pyroxene in the mid- and far-infrared, **264**, 654
 Kokubo E. *see* Ida S.
 Kolokolova L.O., Mishchenko M.I., Wolff M., On the negative polarization of light scattered by subwavelength regolithic grains, **260**, 550
 Kompaneets D.A. *see* Igumenshchev I.V.
 Kondo H. *see* Carrera F.J.
 Kosovichev A.G. *see* Gough D.O.
 Kosovichev A.G., Seismic measurements of the helium abundance and the depth of stellar convection zones, **265**, 1053
 Kotilainen J.K., Ward M.J., Williger G.M., CCD imaging of Seyfert galaxies: deconvolution of the nuclear and stellar components, **263**, 655
 Kotok E. *see* Jørgensen H.E.
 Kotov Yu.D. *see* Bogovalov S.V.
 Kovtjukh V.V. *see* Andrievsky S.M.
 Kraan-Korteweg R.C. *see* Lahav O.
 Krabbe A. *see* Clements D.L.
 Kreidl T.J. *see* Martinez P.
 Krisciunas K., Aspin C., Geballe T.R., Akazawa H., Claver C.F., Guinan E.F., Landis H.J., Luedke K.D., Ohkura N., Ohshima O., Skillman D.R., The 9 Aurigae system, **263**, 781
 Krishan V. *see* Gangadhara R.T.
 Krishan V., Clustering of galaxies by the α -effect, **264**, 257
 Kroupa P., Tout C.A., Gilmore G., The distribution of low-mass stars in the Galactic disc, **262**, 545
 Krymolowski Y. *see* Mazeh T.
 Krzeminski W. *see* Kaluzny J.
 Krzeminski W. *see* Mazur B.
 Kudo A. *see* Preston K.E.
 Kuijken K., Merrifield M.R., A new method for obtaining stellar velocity distributions from absorption-line spectra: unresolved Gaussian decomposition, **264**, 712
 Kukula M.J. *see* Pedlar A.
 Kukula M.J., Ghosh T., Pedlar A., Schilizzi R.T., Miley G.K., de Bruyn A.G., Saikia D.J., High-resolution radio observations of Markarian 3, **264**, 893
 Kumar S. *see* Binney J.
 Kumar S., Coleman C.S., Vertical shear instability in accretion discs, **260**, 323
 Kunkel W.E. *see* Demers S.
 Kurtz D.W. *see* Martinez P.
 Kurtz D.W., Kanaan A., Martinez P., Phase instability and non-linearity in the distorted dipole pulsation mode of the rapidly oscillating Ap star HR 3831 (HD 83368), **260**, 343
 Kurtz D.W., Martinez P., Ashley R.P., Radial pulsation and the rotation period of the rapidly oscillating Ap star α Circini (HR 5463, HD 128898), **264**, 529
 Kuzmin A.D. *see* Izvekova V.A.
 Kuzmin A.D., Izvekova V.A., Compensation of the pulse profiles of pulsars for interstellar scattering, **260**, 724
 La Dous C. *see* Tout C.A.
 La Franca F. *see* Andreani P.
 Lacey C., Cole S., Merger rates in hierarchical models of galaxy formation, **262**, 627
 Lacy M., Hill G.J., Kaiser M.-E., Rawlings S., A complete sample of sources in the North Ecliptic Cap, selected at 38 MHz – II. CCD observations and their implications, **263**, 707
 Lacy M., Rawlings S., Saunders R., Warner P.J., 8C 0821 + 695: a giant radio galaxy at $z = 0.538$, **264**, 721
 Laflamme R. *see* Dunn A.M.
 Lagerkvist C.-I., Fitzsimmons A., Magnusson P., Williams I.P., Investigations of D-type asteroids, **260**, 679
 Lago M.T.V.T. *see* Gameiro J.F.
 Lahav O. *see* Mo H.J.
 Lahav O. *see* Scharf C.A.
 Lahav O. *see* Sodré L., Jr
 Lahav O., Yamada T., Scharf C., Kraan-Korteweg R.C., The Puppis cluster of galaxies behind the Galactic plane and the origin of the 'Local Anomaly', **262**, 711
 Lamb D.Q. *see* Quashnock J.M.
 Lambert D.L. *see* Rao N.K.
 Lambert D.L. *see* Tomkin J.
 Landecker T.L. *see* Wendker H.J.
 Landis H.J. *see* Krisciunas K.
 Laney C.D., Stobie R.S., Light-curve systematics of Cepheids in the infrared, **260**, 408
 Laney C.D., Stobie R.S., Visual and infrared extinction from Cepheid observations, **263**, 921
 Lanzafame A.C., Tully J.A., Barrington K.A., Dufton P.L., Byrne P.B., Burgess A., Collision strengths and rate coefficients for electron impact excitation in He I: an extrapolation of R-matrix calculations to higher electron impact energies, **264**, 402
 Lanzafame G., Belvedere G., Molteni D., A three-dimensional smoothed particle hydrodynamics simulation of the active phase of SS Cyg-type discs and its implications for the mass transfer burst model, **263**, 839
 Lanzetta K. *see* Petrujean P.
 Lasenby A.N. *see* Church S.E.
 Latham D.W. *see* Caldwell J.A.R.

- Latham D.W. *see* Mazeh T.
Lawrence A. *see* Benn C.R.
Lawrence A. *see* Nandra K.
Lawrence A. *see* Papadakis I.E.
Lawrence A. *see* Rowan-Robinson M.
Lawrence A., Rowan-Robinson M., Oliver S., Taylor A., McMahon R.G., Broadhurst T., Scarrott S.M., Ralph C.D., Draper P.W., Ellis R.S., Tadhunter C., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Efstathiou G.P., Saunders W.S., Optical, infrared, radio and polarization imaging of the high-redshift galaxy IRAS F10214 + 4724, **260**, 28
Lawson W.A. *see* Clayton G.C.
Lawson W.A. *see* Fernie J.D.
Lawson W.A., Kilkenny D., van Wyk F., Marang F., Pollard K., Ryder S.D., Luminosity and radial velocity variations of the six coolest extreme helium stars, **265**, 351
Le Bourlot J. *see* Heck E.L.
Leahy D.A., Creighton J., Monte Carlo simulations of X-ray spectra for internally illuminated spherical matter distributions, **263**, 314
Lecar M. *see* Piran T.
Lee U., Saio H., Angular momentum transfer by non-radial oscillations in massive main-sequence stars, **261**, 415
Leeuw F., Combes F., Binney J., *N*-body simulations with perturbation particles – I. Method and tests, **262**, 1013
Lehto H.J. *see* Green A.R.
Lehto H.J. *see* M'Hardy I.M.
Lehto H.J. *see* Sansom A.E.
Lehto H.J., Czerny B., M'Hardy I.M., AGN X-ray light curves – shot noise or low-dimensional attractor?, **261**, 125
Lemke M. *see* Tomkin J.
Lemon G., Dynamical effects of the cosmological constant: the evolution of aspherical structures, **263**, 913
Lewin W.H.G. *see* Lubin L.M.
Lewin W.H.G. *see* Rutledge R.E.
Lewin W.H.G. *see* van der Klis M.
Lewis B.M., Engels D., A search for water and mainline OH masers from OH/IR star colour mimics, **265**, 161
Lewis G.F., Miralda-Escudé J., Richardson D.C., Wambsganss J., Microlensing light curves: a new and efficient numerical method, **261**, 647
Lewis J.R., Bowen D.V., TAURUS and CCD observations of Arp 90, **264**, 818
Liddle A.R., Lyth D.H., Inflation and mixed dark matter models, **265**, 379
Liebert J. *see* Warren S.J.
Lieu R. *see* Pounds K.A.
Lima N.M. *see* Gameiro J.F.
Litchfield S.J. *see* Robson E.I.
Litzén U. *see* Rosberg M.
Liu X., Danziger J., Electron temperature determination from nebular continuum emission in planetary nebulae and the importance of temperature fluctuations, **263**, 256
Liu X., Danziger J., Murdin P., Observations of the Bowen fluorescence mechanism and charge transfer in planetary nebulae – II, **262**, 699
Liu X., Danziger J., Observations of the Bowen fluorescence mechanism and charge transfer in planetary nebulae – I, **261**, 465
Lloyd C. *see* Pounds K.A.
Lloyd C. *see* Stickland D.J.
Lloyd Evans T.H.H. *see* Caldwell J.A.R.
Lloyd H.M. *see* Ivison R.J.
Lloyd H.M., Bode M.F., O'Brien T.J., Kahn F.D., Bipolar recurrent nova outbursts – I. Hydrodynamic models, **265**, 457
Loinger F. *see* Almoznino E.
Lombard F. *see* Koen C.
Lombard F., Koen C., The analysis of indexed astronomical time series – II. The O–C (observed–calculated) technique reconsidered, **263**, 309
Longair M.S. *see* Blain A.W.
Longley D.P.T. *see* Pedlar A.
Longmore A.J. *see* Dixon R.I.
Lonsdale C.J. *see* Lawrence A.
Lonsdale C.J. *see* Rowan-Robinson M.
Lopez J.A. *see* Meaburn J.
López R. *see* Gómez G.
Lorimer D.R., Bailes M., Dewey R.J., Harrison P.A., Pulsar statistics: the birthrate and initial spin periods of radio pulsars, **263**, 403
Loska Z., Czerny B., Szczerba R., The short-term disappearance of the broad-line region in NGC 5548: implications for the dusty torus model, **262**, L31
Loska Z., Szczerba R., Czerny B., Dust radiation in active galactic nuclei – I. Spherical distribution, **261**, 63
Louis P.D., Models for spherical stellar systems with isotropic cores and anisotropic haloes, **261**, 283
Lubin L.M., Lewin W.H.G., van Paradijs J., van der Klis M., Unusual features in the persistent emission of the Rapid Burster, **261**, 149
Lubow S.H., Pringle J.E., The gravitational stability of a compressed slab of gas, **263**, 701
Lucchin F. *see* Coles P.
Lucey J.R. *see* Guzmán R.
Luedke K.D. *see* Krisciunas K.
Lumsden S.L. *see* Davies J.K.
Lynden-Bell D. *see* Bičák J.
Lynden-Bell D. *see* Boily C.
Lynden-Bell D., Katz J., Hellaby C., Correction to geometric extension through Schwarzschild $r=0$, **262**, 325
Lyne A.G. *see* D'Amico N.
Lyne A.G. *see* Harrison P.A.
Lyne A.G. *see* Izvekova V.A.
Lyne A.G. *see* Wu Xinji
Lyne A.G., Pritchard R.S., Smith F.G., 23 years of Crab pulsar rotational history, **265**, 1003
Lyth D.H. *see* Liddle A.R.
McBride N. *see* Hughes D.W.
McBride N. *see* Williams I.P.
McClune J.C. *see* Mashhoon B.
McConnell D. *see* D'Alessandro F.
McCulloch P.M. *see* D'Alessandro F.
McCutcheon W.H. *see* Caswell J.L.
McDonald J.M., Clarke C.J., Dynamical biasing in binary star formation: implications for brown dwarfs in binaries, **262**, 800
McEwan M.J. *see* Petrie S.
McGale P. *see* Pounds K.A.
M'Hardy I.M. *see* Green A.R.
M'Hardy I.M. *see* Lehto H.J.
M'Hardy I.M. *see* Nandra K.
M'Hardy I.M., Marscher A.P., Gear W.K., Muxlow T., Lehto H.J., Abraham R.G., Erratum: VLBI, MERLIN and VLA observations of the blazar 1156 + 295: a bending relativistic jet, **261**, 464
McIntosh A., Webster A., On the affinities of the diffuse interstellar band at 5778 Å, **265**, 781
McIntosh A., Webster A., The diffuse interstellar bands and the Galactic latitude, **261**, L13
McLeod C.P. *see* Elsworth Y.
MacLeod G.C. *see* Gaylard M.J.
MacLeod G.C. *see* Schutte A.J.
MacLeod G.C., Gaylard M.J., Kemball A.J., Long-term variability in 12.2-GHz $2_{\text{J}} - 3_{\text{J}}$ E-methanol masers and new detections towards 6.6-GHz $5_{\text{J}} - 6_{\text{J}}$ A⁺-methanol masers, **262**, 343
McMahan R. *see* Colless M.
McMahan R.K., Jr *see* Saglia R.P.
McMahon R.G. *see* Benn C.R.
McMahon R.G. *see* Lawrence A.
McMahon R.G. *see* Rowan-Robinson M.
Maddox S. *see* Caldwell J.A.R.
Madsen J. *see* Hjorth J.
Magnusson P. *see* Lagerkvist C.-I.
Mahoney T. *see* Garzón F.
Makarenko E.N. *see* Andrievsky S.M.
Makino F. *see* Yaqoob T.
Makino J. *see* Ida S.
Makishima K. *see* van der Klis M.
Makishima K. *see* Warwick R.S.
Manchester R.N. *see* D'Amico N.
Manchester R.N. *see* Siegman B.C.
Manchester R.N. *see* Wu Xinji

- Mann R.G., Heavens A.F., Peacock J.A., The richness dependence of cluster correlations, **263**, 798
- Maoz E., A fluctuation-dissipation approach to dynamical friction in non-homogeneous backgrounds, **263**, 75
- Marang F. *see* Lawson W.A.
- Marang F. *see* Martinez P.
- Marano B. *see* Cimatti A.
- Marchá M.J.M. *see* Browne I.W.A.
- Margon B. *see* Norton A.J.
- Marscher A.P. *see* McHardy I.M.
- Marsh M.C. *see* Barstow M.A.
- Martín-Mirones J.M. *see* Franceschini A.
- Martinez P. *see* Kurtz D.W.
- Martinez P., Kurtz D.W., Kreidl T.J., Koen C., van Wyk F., Marang F., Roberts G., A frequency analysis of the rapidly oscillating Ap star HD 84041 and a determination of its rotation period, **263**, 273
- Martinez P., Kurtz D.W., Meintjes P.J., The discovery and analysis of a rich *p*-mode oscillation spectrum in the Ap star HD 119027, **260**, 9
- Martínez V.J., Paredes S., Saar E., Wavelet analysis of the multifractal character of the galaxy distribution, **260**, 365
- Martínez-González E. *see* van Haarlem M.P.
- Mashhoon B., McClune J.C., Relativistic tidal impulse, **262**, 881
- Mason K.O. *see* Buckley D.A.H.
- Mason K.O. *see* Hakala P.J.
- Mason K.O. *see* Hellier C.
- Mason K.O. *see* Jomaron C.M.
- Mason K.O. *see* Nandra K.
- Mason K.O. *see* O'Donoghue D.
- Mason K.O. *see* Pounds K.A.
- Mason K.O. *see* Ramsay G.
- Massey R.M. *see* Meaburn J.
- Massey R.M., Meaburn J., Extensive, high-speed gas around the Trapezium cluster of the Orion nebula (M42, NGC 1976), **262**, L48
- Masson C.R. *see* Hales S.E.G.
- Masuda N.T. *see* Dent W.R.F.
- Matarrese S. *see* Coles P.
- Matsuoka M. *see* Bond I.A.
- Matsuoka M. *see* Nakamura H.
- Matt G. *see* Haardt F.
- Matt G., Fabian A.C., Ross R.R., Iron K α lines from X-ray photoionized accretion discs, **262**, 179
- Matt G., Fabian A.C., Ross R.R., X-ray photoionized accretion discs: UV and X-ray continuum spectra and polarization, **264**, 839
- Matt G., X-ray polarization properties of a centrally illuminated accretion disc, **260**, 663
- Matthews H.E. *see* Hawarden T.G.
- Matthews H.E. *see* Preston K.E.
- Matthews L. *see* Pound K.A.
- Matthews R., Gilmore G., Is Proxima really in orbit about α Cen A/B?, **261**, L5
- Maurorgordat S. *see* Schaeffer R.
- Mayer C.J. *see* Dent W.R.F.
- Mazeh T., Krymolowski Y., Latham D.W., Studies of multiple stellar systems – I. The halo star G38–13, **263**, 775
- Mazur B. *see* Kaluzny J.
- Mazur B., Kaluzny J., Krzeminski W., Photometric study of the intermediate-age open cluster Be 33, **265**, 405
- Meaburn J. *see* Ivison R.J.
- Meaburn J. *see* Massey R.M.
- Meaburn J., Lopez J.A., Optical evidence for dense, neutral globules in the Dumbbell planetary nebula (NGC 6853, M27), **263**, 890
- Meaburn J., Massey R.M., Raga A.C., Clayton C.A., High-speed, highly ionized jets, knots and loops in the Trapezium cluster of the Orion nebula (M42, NGC 1976), **260**, 625
- Meaburn J., Wang L., Palmer J., Lopez J.A., The kinematics of the Honeycomb nebula in the vicinity of SN 1987A, **263**, L6
- Meadows V.S. *see* Caldwell J.A.R.
- Mediavilla E., Buitrago J., Portillo M., An idealized mechanism for the orbital migration of protoplanets, **261**, 222
- Meglicki Z., Wickramasinghe D., Bicknell G.V., 3D structure of truncated accretion discs in close binaries, **264**, 691
- Meikle W.P.S. *see* Caldwell J.A.R.
- Meikle W.P.S., Spyromilio J., Allen D.A., Varani G.-F., Cumming R.J., Spectroscopy of supernova 1987A at 1–4 μ m – II. Days 377 to 1114, **261**, 535
- Meintjes P.J. *see* Martinez P.
- Mekhtiev M.A. *see* Cragg D.M.
- Mellier Y. *see* Smail I.
- Melott A.L. *see* Coles P.
- Mendoza C. *see* Fromherz T.
- Menzies J.W. *see* Caldwell J.A.R.
- Merrifield M.R. *see* Kuijken K.
- Merrifield M.R., The kinematics of face-on disc galaxies, and the nature of the Galactic H I layer, **261**, 233
- Messina A. *see* Coles P.
- Mestel L. *see* Subramanian K.
- Mészáros P. *see* Begelman M.C.
- Metcalf N. *see* Roche N.
- Meurer G. *see* Hanuschik R.W.
- Meurer G.R. *see* Spyromilio J.
- Michel F.C., Evolution of globular cluster pulsars: predictions, **265**, 449
- Migenes V. *see* Trigilio C.
- Miley G.K. *see* Kukula M.J.
- Millar T.J. *see* Howe D.A.
- Millar T.J. *see* Wagenblast R.
- Millar T.J., Olofsson H., Formaldehyde in oxygen-rich circumstellar envelopes, **262**, L55
- Miller B.A. *see* Elsworth Y.
- Miller P., Rawlings S., Saunders R., The radio and optical properties of the $z < 0.5$ BQS quasars, **263**, 425
- Milne D.K., Caswell J.I., Haynes R.F., A faint polarized arc near the supernova remnant MSH 15–52 (G 320.4–1.2), **264**, 853
- Milne D.K., Stewart R.T., Haynes R.F., Radio polarization in the supernova remnant Puppis A (G 260.4–3.4), **261**, 366
- Mineo T., Stewart G.C., Further constraints on the warm absorber in MR2251–17.8 from Ginga and EXOSAT observations, **262**, 817
- Minh Y.K. *see* Willacy K.
- Miralda-Escudé J. *see* Lewis G.F.
- Miralda-Escudé J. *see* Mo H.J.
- Miralda-Escudé J., On the He II Gunn–Peterson effect and the He II forest, **262**, 273
- Miralda-Escudé J., Rees M.J., Tests for the minihalo model of the Lyman alpha forest, **260**, 617
- Mishchenko M.I. *see* Kolokolova L.O.
- Mitsuda K. *see* van der Klis M.
- Mitsuda K. *see* Yaqoob T.
- Mittaz J.P.D. *see* Pounds K.A.
- Mittaz J.P.D. *see* Rosen S.R.
- Mittaz J.P.D. *see* Caldwell J.A.R.
- Miyoshi S. *see* Nakamura H.
- Mo H.J. *see* Boyle B.J.
- Mo H.J., Jing Y.P., Börner G., On the pairwise velocity dispersion of galaxies, **264**, 825
- Mo H.J., Lahav O., Do galactic potential wells depend on their large-scale environment?, **261**, 895
- Mo H.J., Miralda-Escudé J., Rees M.J., The distribution of minihaloes in cold dark matter cosmogony, **264**, 705
- Mo H.J., Peacock J.A., Xia X.Y., The cross-correlation of IRAS galaxies with Abell clusters and radio galaxies, **260**, 121
- Mobasher B., Sharples R.M., Ellis R.S., A complete galaxy redshift survey – V. Infrared luminosity functions for field galaxies, **263**, 560
- Mohan Rao D. *see* Nagendra K.N.
- Möller P. *see* Zeilinger W.W.
- Molteni D. *see* Lanzafame G.
- Monier R. *see* Hodgkin S.T.
- Monk A. *see* Caldwell J.A.R.
- Montesinos B., Jordan C., On magnetic fields, stellar coronae and dynamo action in late-type dwarfs, **264**, 900
- Montgomery A.S., Bates B., Davies R.D., Kemp S.N., *IUE* and H I observations of gas components towards HD 174632, **263**, 131
- Moore B., Frenk C.S., White S.D.M., Galaxy groups: abundance by luminosity and by velocity dispersion, **261**, 827
- Moore T.J.T. *see* Aitken D.K.
- Moore T.J.T. *see* Chandler C.J.

- Moorhouse A. *see* Chrysostomou A.
 Morgan E. *see* van der Klis M.
 Morganti R. *see* Tadhunter C.N.
 Morganti R., Kileen N.E.B., Tadhunter C.N., The radio structures of southern 2-Jy radio sources, **263**, 1023
 Morras R. *see* Arnal E.M.
 Moscardini L. *see* Coles P.
 Moskalenko I.V., Karakula S., Tkaczyk W., Cygnus X-3 light-curve model in the TeV energy region, **260**, 681
 Moskalik P. *see* Dziembowski W.A.
 Mountain C.M. *see* Chandler C.J.
 Mountain M. *see* Ramsay S.K.
 Moustakas L.A. *see* Frye B.L.
 Mumma M.J. *see* Davies J.K.
 Munari U., Buson L.M., Heavy mass loss from the symbiotic star AS 304, **263**, 267
 Murdin P. *see* Liu X.
 Murphy B.W. *see* van der Klis M.
 Murphy D.W., Browne I.W.A., Perley R.A., VLA observations of a complete sample of core-dominated radio sources, **264**, 298
 Murray S.D., Clarke C.J., *N*-body simulations of star-disc captures in globular clusters, **265**, 169
 Musilov A.G., Sarna M.J., Formation of low-mass binaries with millisecond pulsars, **262**, 164
 Muxlow T. *see* McHardy I.M.
 Muxlow T.W.B. *see* Patnaik A.R.
 Muxlow T.W.B. *see* Pedlar A.
 Muzzio J.C. *see* Wachlin F.C.
 Myasnikov A.V., Zhekov S.A., Modelling of X-ray emission from WR + O binary systems, **260**, 221
 Nagendra K.N., Rangarajan K.E., Mohan Rao D., The combined effect of partial redistribution and non-coherent electron scattering on polarized resonance line transfer, **262**, 855
 Nakamura H. *see* Terasawa N.
 Nakamura H., Matsuoka M., Kawai N., Yoshida A., Miyoshi S., Kitamoto S., Yamashita K., Unified model fitting to variable X-ray spectra of Cygnus X-3, **261**, 353
 Namboodiri P.M.S., Kochhar R.K., The density structure of a galaxy influenced by a massive companion, **261**, 855
 Nandra K. *see* Brandt W.N.
 Nandra K. *see* George I.M.
 Nandra K., Fabian A.C., George I.M., Branduardi-Raymont G., Lawrence A., Mason K.O., McHardy I.M., Pounds K.A., Stewart G.C., Ward M.J., Warwick R.S., A ROSAT observation of NGC 5548, **260**, 504
 Narayan R. *see* Piran T.
 Narayan R. *see* Syer D.
 Narayan R., Piran T., Do gamma-ray burst sources repeat?, **265**, L65
 Narlikar J.V. *see* Das Gupta P.
 Naselsky P. *see* Jørgensen H.E.
 Nath B.B., Biermann P.L., Did cosmic rays reionize the intergalactic medium?, **265**, 241
 Nath B.B., Eichler D., A possible forest of emission lines from protogalaxies, **261**, L25
 Navarro J.F., White S.D.M., Simulations of dissipative galaxy formation in hierarchically clustering universes – I. Tests of the code, **265**, 271
 Naylor D.A., Clark T.A., Davis G.R., Duncan W.D., Tompkins G.J., Broad-band spectroscopy with the James Clerk Maxwell Telescope using a polarizing Fourier transform spectrometer, **260**, 875
 Naylor T. *see* Casares J.
 Naylor T. *see* Jomaron C.M.
 Naylor T. *see* Sanz J.L.
 Naylor T. *see* Shahbaz T.
 Naylor T., Podsiadlowski Ph., How young are the low-mass X-ray binaries? Conclusions from a flux-limited sample, **262**, 929
 Nejad L.A.M. *see* Wagenblast R.
 Nelson G.J. *see* Stewart R.T.
 Nelson R.F. *see* Spencer R.E.
 Nelson R.P., Papaloizou J.C.B., Three-dimensional hydrodynamic simulations of collapsing prolate clouds, **265**, 905
 Neumann D.M. *see* Böhlinger H.
 New R. *see* Elsworth Y.
 Nichol R.C., Collins C.A., The Edinburgh–Durham Southern Galaxy Catalogue – VI. The stability of $w(\theta)$, **265**, 867
 Norris R.P. *see* Caswell J.L.
 Norton A.J. *see* Coe M.J.
 Norton A.J. *see* Everall C.
 Norton A.J., Coe M.J., Unger S.J., Margon B., Phillips A.C., Infrared observations of highly variable radio sources in the galactic plane, **260**, 883
 Norton A.J., Simulation of the X-ray light curves of intermediate polars, **265**, 316
 Novikov I. *see* Jørgensen H.E.
 Nozakura T., A model for the bilateral interaction between dynamo action and star formation in galactic discs, **260**, 861
 Nozakura T., Large-scale non-linear limiting of galactic $\alpha^2\omega$ -dynamics, **262**, 970
 O'Brien P.T. *see* Goad M.R.
 O'Brien T.J. *see* Lloyd H.M.
 O'Dea C. *see* Pedlar A.
 O'Dell M.A. *see* Hendry M.A.
 O'Dell M.A., Collier Cameron A., Rotation periods of selected members of the α Persei cluster, **262**, 521
 Odenkirchen M. *see* Scholz R.-D.
 O'Donoghue D. *see* Buckley D.A.H.
 O'Donoghue D. *see* Caldwell J.A.R.
 O'Donoghue D. *see* Stobie R.S.
 O'Donoghue D., Mason K.O., Chen A., Hassall B.J.M., Watson M.G., RE1844–74: a new AM Her star from the ROSAT Wide Field Camera Survey, **265**, 545
 Ogura K., Discovery of two Herbig–Haro objects in the small dark cloud D291.4–0.2 in Carina, **262**, 735
 Ohashi T. *see* Saxton R.D.
 Ohashi T. *see* Warwick R.S.
 Ohkura N. *see* Krisciunas K.
 Ohno H., Shibata S., The random magnetic field in the Galaxy, **262**, 953
 Ohshima O. *see* Krisciunas K.
 Okamura S. *see* Doi M.
 Oliver S. *see* Lawrence A.
 Oliver S. *see* Rowan-Robinson M.
 Olofsson H. *see* Millar T.J.
 Opher R. *see* de Gouveia Dal Pino E.M.
 Origlia L. *see* Scaltriti F.
 Orlando M., Vela X-1 and its missing third harmonic, **264**, 181
 Orlov V. *see* Kiseleva L.
 Orofino V. *see* De Luca M.
 Osmer P.S. *see* Warren S.J.
 Ostrowski M., Cosmic ray acceleration at relativistic shock waves in the presence of oblique magnetic fields with finite-amplitude perturbations, **264**, 248
 Otani C. *see* Yaqoob T.
 Owens A., Page C.G., Sembay S., Schaefer B.E., A ROSAT Wide Field Camera search for XUV bursts, **260**, L25
 Ozernoy L.M. *see* Harding A.K.
 Padman R. *see* Green D.A.
 Padman R. *see* Hobson M.P.
 Padman R. *see* Richer J.S.
 Padmanabhan T. *see* Subramanian K.
 Padovani P., Ghisellini G., Fabian A.C., Celotti A., Radio-loud AGN and the extragalactic gamma-ray background, **260**, L21
 Padovani P., The radio-loud fraction of QSOs and its dependence on magnitude and redshift, **263**, 461
 Page C.G. *see* Owens A.
 Page C.G. *see* Pounds K.A.
 Palmer J. *see* Meaburn J.
 Paltani S. *see* Robson E.I.
 Pamyatnykh A.A. *see* Dziembowski W.A.
 Pankiewicz G.S. *see* Pounds K.A.
 Pantano O. *see* Dubal M.R.
 Papadakis I.E., Lawrence A., Improved methods for power spectrum modelling of red noise, **261**, 612
 Papaloizou J.C.B. *see* Nelson R.P.
 Paredes S. *see* Martínez V.J.
 Parker Q.A. *see* Phillips S.
 Pastoriza M.G., Dottori H.A., Terlevich E., Terlevich R., Diaz A.I., Optical and near-IR spectrophotometry of the galaxy NGC 3310, **260**, 177

- Patnaik A.R. *see* Browne I.W.A.
 Patnaik A.R., Browne I.W.A., King L.J., Muxlow T.W.B., Walsh D., Wilkinson P.N., B0218 + 35.7: a gravitationally lensed system with the smallest separation, **261**, 435
 Pavlenko E.P. *see* Casares J.
 Peacock J.A. *see* Dunlop J.S.
 Peacock J.A. *see* Mann R.G.
 Peacock J.A. *see* Mo H.J.
 Pearce F.R., Thomas P.A., Couchman H.M.P., Mergers of collisionless systems, **264**, 497
 Pedlar A. *see* Kukula M.J.
 Pedlar A. *see* Willacy K.
 Pedlar A., Kukula M.J., Longley D.P.T., Muxlow T.W.B., Axon D.J., Baum S., O'Dea C., Unger S.W., The radio nucleus of NGC 4151 at 5 and 8 GHz, **263**, 471
 Peletier R.F. *see* Davies R.L.
 Peña M. *see* Cozio R.
 Peng R.S. *see* Caswell J.L.
 Peng R.S., Whiteoak J.B., Population anti-inversion in the $2_{\text{g}} \rightarrow 3_{\text{g}}$ transition of CH_3OH , **260**, 529
 Penny A.J. *see* Caldwell J.A.R.
 Penny A.J. *see* Folgeraiter E.L.
 Pérez-Olea D. *see* Colina L.
 Perley R.A. *see* Murphy D.W.
 Perry J.J., Williams R., Accretion discs in active galactic nuclei: tell-tale signs of the nuclear star cluster?, **260**, 437
 Persi P. *see* Scaltriti F.
 Persic M. *see* Ashman K.M.
 Persic M. *see* Salucci P.
 Persic M., Salucci P., Dark matter, not magnetism, **261**, L21
 Peterson B.A. *see* Colless M.
 Petitjean P., Bergeron J., Carswell R.F., Puget J.L., Detailed structure of expanding photoionized Ly α clouds, **260**, 67
 Petitjean P., Webb J.K., Rauch M., Carswell R.F., Lanzetta K., Evidence for structure in the H I column density distribution of QSO absorbers, **262**, 499
 Petrie S., Bettens R.P.A., Freeman C.G., McEwan M.J., The ion chemistry of $\text{H}_2\text{C}_3\text{O}^+$, C_3O_2^+ and C_3O^+ in dense interstellar clouds: an experimental study, **264**, 862
 Petri D. *see* de Freitas Pacheco J.A.
 Pfenniger D. *see* Zeeuw T.
 Phillips S. *see* Davies J.I.
 Phillips S. *see* Turner J.A.
 Phillips S., Disney M.J., Davies J.I., The case for low surface brightness galaxies as the absorbers in QSO Mg II systems, **260**, 453
 Phillips S., Infall models of galaxy evolution: a solution to the redshift distribution problem?, **263**, 86
 Phillips S., Parker Q.A., Galaxy surface photometry with Kodak Technical Pan film, **265**, 385
 Phillips A.C. *see* Norton A.J.
 Pichon C. *see* Bičák J.
 Pirola V. *see* Hakala P.J.
 Pike C.D. *see* Pounds K.A.
 Pineau des Forets G. *see* Heck E.L.
 Pineau des Forets G., Roueff E., Schilke P., Flower D.R., Sulphur-bearing molecules as tracers of shocks in interstellar clouds, **262**, 915
 Pineault S., Duquet J.-R., Binary capture of small bodies by three-body interactions and impact on to compact objects, **261**, 246
 Pintado O.I., Adelman S.J., Elemental abundance analyses with DAO spectrograms - XI. The early B stars Gamma Pegasi and Iota Herculis, **264**, 63
 Piotto G. *see* Capaccioli M.
 Piran T. *see* Narayan R.
 Piran T., Lecar M., Goldwirth D.S., da Costa L.N., Blumenthal G.R., Limits on the primordial fluctuation spectrum: void sizes and anisotropy of the cosmic microwave background radiation, **265**, 681
 Piran T., Shemi A., Narayan R., Hydrodynamics of relativistic fireballs, **263**, 861
 Pisani A., A non-parametric and scale-independent method for cluster analysis - I. The univariate case, **265**, 706
 Pitts E. *see* Chamcham K.
 Plionis M. *see* Coles P.
 Plionis M., Coles P., Catelan P., The QDOT and cluster dipoles: evidence for a low- Ω_0 Universe?, **262**, 465
 Podsiadlowski P. *see* Fabian A.C.
 Podsiadlowski Ph. *see* Naylor T.
 Poezd A., Shukurov A., Sokoloff D., Global magnetic patterns in the Milky Way and the Andromeda nebula, **264**, 285
 Pogosyan D.Yu., Starobinsky A.A., Confrontation of the cold plus hot dark matter model with observational data, **265**, 507
 Pollacco D. *see* Caldwell J.A.R.
 Pollacco D.L. *see* Bell S.A.
 Pollacco D.L. *see* Clayton G.C.
 Pollacco D.L., Bell S.A., New light on UU Sagittae, **262**, 377
 Pollard K. *see* Lawson W.A.
 Ponman T.J. *see* Pounds K.A.
 Pooley G. *see* Grainge K.
 Pooley G.G., Green D.A., Ryle Telescope observations of SN1993J at 15 GHz: the first 115 d, **264**, L17
 Portilla M. *see* Mediavilla E.
 Pounds K.A. *see* Nandra K.
 Pounds K.A. *see* Smith D.A.
 Pounds K.A., Allan D.J., Barber C., Barstow M.A., Bertram D., Branduardi-Raymont G., Brebner G.E.C., Buckley D., Bromage G.E., Cole R.E., Courtier M., Cruise A.M., Culhane J.L., Denby M., Donoghue D.O., Dunford E., Georgantopoulos I., Goodall C.V., Gondhalekar P.M., Gourlay J.A., Harris A.W., Hassall B.J.M., Hellier C., Hodgkin S., Jeffries R.D., Kellett B.J., Kent B.J., Lieu R., Lloyd C., McGale P., Mason K.O., Matthews L., Mittaz J.P.D., Page C.G., Pankiewicz G.S., Pike C.D., Ponman T.J., Puchnarewicz E.M., Pye J.P., Quenby J.J., Ricketts M.J., Rosen S.R., Sansom A.E., Sembay S., Sidher S., Sims M.R., Stewart B.C., Sumner T.J., Vallance R.J., Watson M.G., Warwick R.S., Wells A.A., Willingale R., Willmore A.P., Willoughby G.A., Wonnacott D., The ROSAT Wide Field Camera all-sky survey of extreme-ultraviolet sources - I. The Bright Source Catalogue, **260**, 77
 Prabhu T.P. *see* Anupama G.C.
 Prestage R.M. *see* Hobson M.P.
 Preston K.E., Feldman P.A., Singleton D.L., Amano T., Matthews H.E., Kudo A., Studies of telluric CO from Mauna Kea using the James Clerk Maxwell Telescope, **264**, 673
 Prieto M.A., Walsh J.R., Fosbury R.A.E., di Serego Alighieri S., The extended nebulosity in the radio galaxy 3C 227, **263**, 10
 Pringle J.E. *see* Clarke C.J.
 Pringle J.E. *see* Lubow S.H.
 Pringle J.E. *see* Tout C.A.
 Prinja R.K., Rosen S.R., A 4.86-h periodic modulation in the UV resonance lines of the cataclysmic variable V795 Herculis, **262**, L37
 Pritchard R.S. *see* Lyne A.G.
 Protheroe R.J., Stanev T., Electron-photon cascading of very high-energy gamma-rays in the infrared background, **264**, 191
 Puchnarewicz E.M. *see* Pounds K.A.
 Puget J.L. *see* Petitjean P.
 Puxley P.J. *see* Davies J.K.
 Pye J.P. *see* Hodgkin S.T.
 Pye J.P. *see* Pounds K.A.
 Pye J.P. *see* Warwick R.S.
 Qian E. *see* Hunter C.
 Qian E.E., Biorthogonal potential-density sets for flat discs, **263**, 394
 Qiao Guojun *see* Wu Xinji
 Quashnock J.M., Lamb D.Q., Evidence for the Galactic origin of gamma-ray bursts, **265**, L45
 Quashnock J.M., Lamb D.Q., Evidence that gamma-ray burst sources repeat, **265**, L59
 Quenby J.J. *see* Pounds K.A.
 Quinn T. *see* Katz N.
 Raga A.C. *see* Falle S.A.E.G.
 Raga A.C. *see* Meaburn J.
 Raga A.C., Biro S., Machine-gun jets from time-dependent sources, **264**, 758
 Raga A.C., Cantó J., Biro S., Ballistic stellar jets from sources with a time-dependent ejection direction, **260**, 163
 Raine D.J. *see* Cassidy I.
 Raju K.P., Desai J.N., Chandrasekhar T., Ashok N.M., Line-of-sight velocities observed in the inner solar corona during the total solar eclipses of 1980 and 1983, **263**, 789
 Rampazzo R. *see* Governato F.

- Ramsay G., Rosen S.R., Mason K.O., Cropper M.S., Watson M.G., *ROSAT* observations of UZ For: evidence of a structured X-ray emission region, **262**, 993
- Ramsay S.K., Chrysostomou A., Geballe T.R., Brand P.W.J.L., Mountain M., Pure fluorescent H₂ emission from Hubble 12, **263**, 695
- Ramseyer T.F., Robinson E.L., Zhang E., Wood J.H., Stiening R.F., A survey for QPOs in AM Herculis stars and a detailed study of the QPOs in AN Ursae Majoris, **260**, 209
- Rangarajan K.E. *see* Nagendra K.N.
- Rao N.K., Lambert D.L., Optical emission bands in the spectrum of the R CrB star V854 Cen at minimum, **263**, L27
- Rathnasree N., Pulsar population characteristics and evolution of massive binaries, **260**, 717
- Rauch M. *see* Petitjean P.
- Rauch M., Carswell R.F., Webb J.K., Weymann R.J., A re-analysis of the spectrum of QSO 2206-199, **260**, 589
- Rawlings J.M.C., Drew J.E., Barlow M.J., Excited hydrogen and the formation of molecular hydrogen via associative ionization – I. Physical processes and outflows from young stellar objects, **265**, 968
- Rawlings S. *see* Lucy M.
- Rawlings S. *see* Miller P.
- Rawlings S. *see* Simpson C.
- Rebolo R. *see* van Haarlem M.P.
- Reduzzi L. *see* Governato F.
- Rees M.J. *see* Begelman M.C.
- Rees M.J. *see* Coppi P.
- Rees M.J. *see* Haehnelt M.G.
- Rees M.J. *see* Miralda-Escudé J.
- Rees M.J. *see* Mo H.J.
- Reglero V. *see* Coe M.J.
- Reid N., Low-mass stars in the Hyades, **265**, 785
- Remillard R.A. *see* Buckley D.A.H.
- Reuter D.C. *see* Davies J.K.
- Reynolds A.P. *see* Bell S.A.
- Reynolds A.F., Hilditch R.W., Bell S.A., Hill G., Optical spectroscopy of the massive X-ray binary SMC X-1/Sk 160, **261**, 337
- Riazi N., Askari H.R., Spherically symmetric, static solutions of the Brans-Dicke field equations in vacuum, **261**, 229
- Richardson D.C. *see* Lewis G.F.
- Richardson D.C., A new tree code method for simulation of planetesimal dynamics, **261**, 396
- Richer J.S., Padman R., Ward-Thompson D., Hills R.E., Harris A.I., The molecular environment of S106 IR, **262**, 839
- Ricketts M.J. *see* Pounds K.A.
- Riley J.M. *see* Waldram E.M.
- Riley J.M., Radio variability in a complete sample of extragalactic sources at 151 MHz, **260**, 893
- Rizzo J.R. *see* Arnal E.M.
- Roberto M. *see* Scaltriti F.
- Roberts G. *see* Martinez P.
- Robinson E.L. *see* Ramseyer T.F.
- Robinson E.L. *see* Wood J.H.
- Robinson R.D. *see* Thatcher J.D.
- Robson E.I. *see* Dunlop J.S.
- Robson E.I. *see* Hughes D.H.
- Robson E.I., Litchfield S.J., Gear W.K., Hughes D.H., Sandell G., Courvoisier T.J.-L., Paltani S., Valtaoja E., Teräsranta H., Tornikoski M., Steppe H., Wright M.C.H., The infrared-millimetre-centimetre flaring behaviour of the quasar 3C 273, **262**, 249
- Robson I. *see* Rowan-Robinson M.
- Rocha N., Shanks T., Metcalfe N., Fong R., The angular correlation function of galaxies with $B \sim 25$ mag, **263**, 360
- Roche P. *see* Coe M.J.
- Roche P. *see* Everall C.
- Roche P.F. *see* Aitken D.K.
- Roche P.F., Aitken D.K., Smith C.H., Circumstellar dust emission in five Large Magellanic Cloud supergiants, **262**, 301
- Roche P.F., Aitken D.K., Smith C.H., The evolution of the 8–13 μm spectrum of supernova 1987A, **261**, 522
- Roche P.F., Chandler C.J., The nature of the millimetre emission in NGC 4102, NGC 4418, NGC 6000 and Mrk 231, **265**, 486
- Rodonò M. *see* Ventura R.
- Rolph C.D. *see* Lawrence A.
- Rood H.J., Williams B.A., Tully-Fisher distances to M31-like galaxies in the Coma cluster, **263**, 211
- Rosberg M., Litzén U., Johansson S., Experimental isotopic shifts in Ni II and Fe II, **262**, L1
- Rosen S.R. *see* Barstow M.A.
- Rosen S.R. *see* Pounds K.A.
- Rosen S.R. *see* Prinja R.K.
- Rosen S.R. *see* Ramsay G.
- Rosen S.R., Mittaz J.P.D., Hakala P.J., RE0751 + 14, the first ‘intermediate’ polar?, **264**, 171
- Ross R.R. *see* Matt G.
- Ross R.R., Fabian A.C., The effects of photoionization on X-ray reflection spectra in active galactic nuclei, **261**, 74
- Roueff E. *see* Heck E.L.
- Roueff E. *see* Pineau des Forets G.
- Rowan-Robinson M. *see* Benn C.R.
- Rowan-Robinson M. *see* Jones M.H.
- Rowan-Robinson M. *see* Lawrence A.
- Rowan-Robinson M. *see* Taylor A.N.
- Rowan-Robinson M. *see* Watson J.M.
- Rowan-Robinson M., Benn C.R., Lawrence A., McMahon R.G., Broadhurst T.J., The evolution of faint radio sources, **263**, 123
- Rowan-Robinson M., Efstathiou A., Lawrence A., Oliver S., Taylor A., Broadhurst T.J., McMahon R.G., Benn C.R., Condon J.J., Lonsdale C.J., Hacking P., Conrow T., Saunders W.S., Clements D.L., Ellis R.S., Robson I., The ultraviolet-to-radio continuum of the ultraluminous galaxy IRAS F10214 + 4724, **261**, 513
- Rowan-Robinson M., Efstathiou A., Multigrain dust cloud models of starburst and Seyfert galaxies, **263**, 675
- Roxburgh I.W., On the structure and secular stability of plane-parallel stellar objects, **264**, 636
- Roy J.-R. *see* Edmunds M.G.
- Roy J.-R. *see* Walsh J.R.
- Rózyczka M., Tenorio-Tagle G., Franco J., Bodenheimer P., On the evolution of supernova remnants – III. Off-centred supernova explosions in pre-existing wind-driven bubbles, **261**, 674
- Ruciński S.M. *see* Kaluzny J.
- Ruette F. *see* Fromherz T.
- Rutledge R.E., Lewin W.H.G., On the Galactic distribution of gamma-ray bursts **265**, L51
- Rybicki G.B. *see* Wachlin F.C.
- Ryder S.D. *see* Lawson W.A.
- Saar E. *see* Einasto J.
- Saar E. *see* Martínez V.J.
- Sadler E.M. *see* Davies R.L.
- Sáez D., Arnau J.V., Fullana M.J., The imprints of the Great Attractor and the Virgo cluster on the microwave background, **263**, 681
- Sager R. *see* Gopal-Krishna
- Saglia R.P. *see* Colless M.
- Saglia R.F., Bertschinger E., Bagley G., Burstein D., Colless M., Davies R.L., McMahan R.K., Jr., Wegner G., The effects of seeing on the photometric properties of elliptical galaxies, **264**, 961
- Saha P., Designer basis functions for potentials in galactic dynamics, **262**, 1062
- Saich P. *see* Barrow J.D.
- Saikia D.J. *see* Kukula M.J.
- Saiò H. *see* Gautschy A.
- Saiò H. *see* Lee U.
- Saiò H., Excitation of the pulsation in the helium star V652 Her, **260**, 465
- Saitō M. *see* Yamada T.
- Salucci P. *see* Ashman K.M.
- Salucci P. *see* Persic M.
- Salucci P., Frenk C.S., Persic M., A physical distance indicator for spiral galaxies and the determination of H_0 , **262**, 392
- Salvati M. *see* Cimatti A.
- Sandell G. *see* Hawarden T.G.
- Sandell G. *see* Robson E.I.
- Sansom A.E. *see* Barstow M.A.
- Sansom A.E. *see* Pounds K.A.

- Sansom A.E., Dotani T., Asai K., Lehto H.J., Detection of a 5.7-h period in the globular cluster X-ray source 4U 1746–371, **262**, 429
- Santiago B.X., Djorgovski S., Multivariate analysis of globular cluster systems in early-type galaxies, **261**, 753
- Santos J.F.C., Jr, Bica E., Reddening and age for 11 Galactic open clusters from integrated spectra, **260**, 915
- Santos N.O. *see* Chan R.
- Sanz J.L., Clavel J., Naylor T., Wamsteker W., The Lyman α forest towards the $z = 2.72$ QSO HS 1700 + 6416, **260**, 468
- Saripalli L. *see* Subrahmanyam R.
- Sarna M.J. *see* Musilimov A.G.
- Sarna M.J., The evolutionary status of β Per, **262**, 534
- Sarpal B.K., Tennyson J., Calculated vibrational excitation rates for electron-H₂⁺ collisions, **263**, 909
- Sasaki S., Takahara F., Gravitational lens frequencies and the cosmological constant: an examination of amplification bias and galaxy formation redshift, **262**, 681
- Saunders R. *see* Grainge K.
- Saunders R. *see* Lucy M.
- Saunders R. *see* Miller P.
- Saunders W.S. *see* Lawrence A.
- Saunders W.S. *see* Rowan-Robinson M.
- Saxton R.D., Turner M.J.L., Williams O.R., Stewart G.G., Ohashi T., Kii T., The soft X-ray excesses of high-luminosity AGN, **262**, 63
- Saygili K. *see* Ercan E.N.
- Scaltriti F., Busso M., Ferrari-Toniolo M., Origlia L., Persi P., Roberto M., Silvestro G., Evidence from infrared observations of circumstellar matter around chromospherically active binaries, **264**, 5
- Scaramella R., On the agreement between *COBE* anisotropy results and specific predictions from clusters of galaxies, **262**, L43
- Scaramella R., Vittorio N., *COBE* DMR data and the primordial index of density fluctuations, **263**, L17
- Scarrott R.M.J., Scarrott S.M., Wolstencroft R.D., H α imaging polarimetry of the protoplanetary nebula M2–9, **264**, 740
- Scarrott S.M. *see* Draper P.W.
- Scarrott S.M. *see* Foley N.B.
- Scarrott S.M. *see* Lawrence A.
- Scarrott S.M. *see* Scarrott R.M.J.
- Scarrott S.M., Draper P.W., Stockdale D.P., Wolstencroft R.D., Imaging polarimetry of the starburst galaxy NGC 1808: another M82?, **264**, L7
- Scarrott S.M., Draper P.W., Tadhunter C.N., Imaging polarimetry of the bipolar nebula Parsamyan 22, **260**, 171
- Scarrott S.M., Draper P.W., Tadhunter C.N., The nature of the optical nebulosity surrounding the star RNO 91 in the L43 dark cloud, **262**, 306
- Schaefer B.E. *see* Owens A.
- Schaeffer R., Maurogordato S., Cappi A., Bernardeau F., The fundamental plane of galaxy clusters, **263**, L21
- Scharf C. *see* Lahav O.
- Scharf C.A., Lahav O., Spherical harmonic analysis of the 2-Jy *IRAS* galaxy redshift survey, **264**, 439
- Scheuer P.A.G. *see* Hobson M.P.
- Schilizzi R.T. *see* Kukula M.J.
- Schilke P. *see* Pineau des Forets G.
- Scholz R.-D., Odenkirchen M., Irwin M.J., The absolute proper motion and Galactic orbit of M3, **264**, 579
- Schutte A.J., van der Walt D.J., Gaylard M.J., MacLeod G.C., Detection of 35 new 5–6 μ m A⁺-methanol masers towards *IRAS* sources, **261**, 783
- Scott D., Extragalactic light fluctuations in the decaying dark matter hypothesis, **263**, 903
- Scott D.M. *see* Baykal A.
- Scott P.F. *see* Hobson M.P.
- Seaton M.J., Fitting and smoothing of opacity data, **265**, L25
- Seidensticker K.J. *see* Hanuschik R.W.
- Sekiguchi K. *see* Buckley D.A.H.
- Sekiguchi K. *see* Caldwell J.A.R.
- Sekiguchi K., Wolstencroft R.D., Spectroscopic observations of Arp-Madore interacting galaxies – II. Galaxies with tails, loops of material or debris, **263**, 349
- Sekii T., A new strategy for 2D inversion for solar rotation, **264**, 1018
- Selby M.J. *see* Garzón F.
- Sellgren K. *see* Smith R.G.
- Sembay S. *see* Owens A.
- Sembay S. *see* Pounds K.A.
- Sembay S. *see* Warwick R.S.
- Sembay S., West R.G., Black hole remnants: soft X-ray flares from tidally disrupted stars, **262**, 141
- Semerák O. *see* Bičák J.
- Sengupta S., Resonance-line polarization in a moving medium: solution in the comoving frame with complete frequency redistribution, **265**, 513
- Setti G. *see* Stiavelli M.
- Shahbaz T., Naylor T., Charles P.A., An ellipsoidal study of Centaurus X-4, **265**, 655
- Shandarin S.F. *see* Coles P.
- Shanks T. *see* Boyle B.J.
- Shanks T. *see* Georgantopoulos I.
- Shanks T. *see* Roche N.
- Shara M. *see* Wickramasinghe D.T.
- Sharma D.P. *see* Greenhill J.G.
- Sharples R.M. *see* Mobasher B.
- Shaw M., The photometric properties of 'box/peanut' galactic bulges, **261**, 718
- Shemi A. *see* Piran T.
- Shibai H. *see* Koike C.
- Shibata S. *see* Ohno H.
- Shibata S. *see* Washimi H.
- Shitov Yu. P. *see* Izvekova V.A.
- Shukla P.K. *see* Gangadhara R.T.
- Shukurov A. *see* Poezd A.
- Sidher S. *see* Pounds K.A.
- Siegmund B.C., Manchester R.N., Durdin J.M., Timing parameters for 59 pulsars, **262**, 449
- Silk J. *see* Subrahmanyam R.
- Silvestro G. *see* Scaltriti F.
- Simpson C., Clements D.L., Rawlings S., Ward M., Optical spectroscopy of southern radio galaxies, **262**, 889
- Sims M.R. *see* Pounds K.A.
- Sinclair M. *see* Subrahmanyam R.
- Singal A.K., Cosmic evolution and luminosity dependence of the physical sizes of powerful radio galaxies and quasars, **263**, 139
- Singal A.K., Evidence against the unified scheme for powerful radio galaxies and quasars, **262**, L27
- Singh J., Swank J., X-ray observations of EX Hydrae with the *Einstein* Solid State Spectrometer, **262**, 1000
- Singleton D.L. *see* Preston K.E.
- Skillen I., Fernley J.A., Stobie R.S., Jameson R.F., The absolute magnitudes of RR Lyrae stars – V, WY Antliae, W Crateris, RV Octantis and BB Puppis, **265**, 301
- Skillman D.R. *see* Kriciunas K.
- Skopal A. *see* Ivison R.J.
- Slawson R.D. *see* Caldwell J.A.R.
- Smail I., Ellis R.S., Aragón-Salamanca A., Soucail G., Mellier Y., Giraud E., The nature of star formation in lensed galaxies at high redshift, **263**, 628
- Smalley B., The effective temperatures of Am stars from the infrared flux method, **265**, 1035
- Smith A. *see* Jones L.R.
- Smith C.H. *see* Aitken D.K.
- Smith C.H. *see* Roche P.F.
- Smith D.A., Done C., Pounds K.A., Unified theories of active galactic nuclei: the hard X-ray spectrum of NGC 1068, **263**, 54
- Smith F.G. *see* Izvekova V.A.
- Smith F.G. *see* Lyne A.G.
- Smith P.A. *see* Hawarden T.G.
- Smith R.C. *see* Brett J.M.
- Smith R.C., Fiddick R.J., Hawkins N.A., Catalán M.S., Evidence for non-axisymmetric absorption in V1315 Aquilae, **264**, 619
- Smith R.G., Sellgren K., Brooke T.Y., Grain mantles in the Taurus dark cloud, **263**, 749
- Smith R.G., The dust around the comet-like nebula Parsamian 13S, **264**, 587
- Sodré L., Jr, Lahav O., The bivariate diameter-magnitude function of galaxies in the ESO-LV catalogue, **260**, 285
- Sokoloff D. *see* Poezd A.
- Sokoloski J.L. *see* Yaqoob T.

- Soltynski M.G. *see* Caldwell J.A.R.
- Sommer-Larsen J., Antonuccio-Delogu V., A model for the formation, evolution and structure of the solar cylinder, **262**, 350
- Sood R.K. *see* Greenhill J.G.
- Sørensen S.-A., On the formation of spiral structure in gaseous discs through tidal interaction – II. Retrograde encounters, **263**, 1
- Soucall G. *see* Smail I.
- Spaans M. *see* van Langevelde H.J.
- Speake C.C. *see* Elsworth Y.
- Spencer R.E., Davis R.J., Zafropoulos B., Nelson R.F., Microwave radio emission from the red dwarf star YZ CMi, **265**, 231
- Spiegel E.A. *see* Balmforth N.J.
- Spyromilio J. *see* Caldwell J.A.R.
- Spyromilio J. *see* Hanuschik R.W.
- Spyromilio J. *see* Meikle W.P.S.
- Spyromilio J., Stathakis R.A., Meurer G.R., Clumping and small-scale mixing in supernova 1987A, **263**, 530
- Stafford R.P., Hibbert A., Bell K.L., Accurate transition probabilities for spectral lines of N III, **260**, L11
- Staker B. *see* Fesen R.A.
- Stanek K.Z., What is the temperature of the Ly α clouds at $z \sim 2$?, **261**, 52
- Stanev T. *see* Protheroe R.J.
- Starobinsky A.A. *see* Pogosyan D.Yu.
- Stathakis R. *see* Hanuschik R.W.
- Stathakis R.A. *see* Spyromilio J.
- Staveley-Smith L. *see* Boyle B.J.
- Steel D.I. *see* Asher D.J.
- Steel D.I., Collisions in the Solar system – V. Terrestrial impact probabilities for parabolic comets, **264**, 813
- Steele I.A., Jameson R.F., Hamby N.C., RIJHK photometry of low-mass stars and brown dwarfs in the Pleiades, **263**, 647
- Stella L. *see* Campana S.
- Stepp H. *see* Robson E.I.
- Sterken C. *see* Jerzykiewicz M.
- Stevens I.R., On determining the wind velocity profiles of early-type stars in massive X-ray binary systems, **265**, 601
- Stewart B.C. *see* Pounds K.A.
- Stewart G.C. *see* Allen S.W.
- Stewart G.C. *see* Boyle B.J.
- Stewart G.C. *see* Carrera F.J.
- Stewart G.C. *see* Georgantopoulos I.
- Stewart G.C. *see* Mineo T.
- Stewart G.C. *see* Nandra K.
- Stewart G.C. *see* Sexton R.D.
- Stewart R.T. *see* Duncan A.R.
- Stewart R.T. *see* Milne D.K.
- Stewart R.T., Caswell J.L., Haynes R.F., Nelson G.J., Circinus X-1: a runaway binary with curved radio jets, **261**, 593
- Stiavelli M. *see* Capaccioli M.
- Stiavelli M. *see* van Albada T.S.
- Stiavelli M. *see* Zeilinger W.W.
- Stiavelli M., Setti G., Non-equilibrium motions in galaxies and gravitational redshift, **262**, L51
- Stickland D.J. *see* Wonnacott D.
- Stickland D.J., Lloyd C., The radial velocity and binarity of HD 153919 (4U 1700–37), **264**, 935
- Stiening R.F. *see* Ramseyer T.F.
- Stipe G.M. *see* Caldwell J.A.R.
- Stobie R.S. *see* Caldwell J.A.R.
- Stobie R.S. *see* Laney C.D.
- Stobie R.S. *see* Skilkin I.
- Stobie R.S., Chen A., O'Donoghue D., Kilkenny D., A new large-amplitude variable white dwarf, **263**, L13
- Stockdale D.P. *see* Scarrott S.M.
- Storey M.C. *see* Greenhill J.G.
- Subrahmanyam R., Ekers R.D., Sinclair M., Silk J., A search for arcmin-scale anisotropy in the cosmic microwave background, **263**, 416
- Subrahmanyam R., Ekers R.D., Wilson W.E., Goss W.M., Allen D.A., G25.5 + 0.2: a new luminous blue variable in the Galaxy?, **263**, 868
- Subrahmanyam R., Saripalli L., Physical conditions in the intergalactic medium, **260**, 908
- Subramanian K., Mestel L., Galactic dynamos and density wave theory – II. An alternative treatment for strong non-axisymmetry, **265**, 649
- Subramanian K., Padmanabhan T., Neutral hydrogen at high redshifts as a probe of structure formation – I. Post-COBE analysis of CDM and HDM models, **265**, 101
- Sullivan D.J. *see* Buckley D.A.H.
- Summer T.J. *see* Pounds K.A.
- Sundelius B. *see* Donner K.J.
- Swank J. *see* Singh J.
- Sweatman W.L., A study of Lagrangian radii oscillations and core-wandering using N-body simulations, **261**, 497
- Syer D., Clarke C.J., Erratum and Addendum: The viscous evolution of elliptical accretion discs, **260**, 463
- Syer D., Narayan R., Steady flow on to a conveyor belt: causal viscosity and shear shocks, **262**, 749
- Szczerba R. *see* Loska Z.
- Tabor G., Binney J., Elliptical galaxy cooling flows without mass drop-out, **263**, 323
- Tadhunter C. *see* Lawrence A.
- Tadhunter C.N. *see* Draper P.W.
- Tadhunter C.N. *see* Morganti R.
- Tadhunter C.N. *see* Scarrott S.M.
- Tadhunter C.N., Morganti R., di Serego Alighieri S., Fosbury R.A.E., Danziger I.J., Optical spectroscopy of a complete sample of southern 2-Jy radio sources, **263**, 999
- Tago E. *see* Einasto J.
- Takahara F. *see* Sasaki S.
- Takata T. *see* Yamada T.
- Takeda A. *see* Yamada T.
- Tashiro M. *see* Warwick R.S.
- Taylor R.J. *see* Chamcham K.
- Taylor A. *see* Lawrence A.
- Taylor A. *see* Rowan-Robinson M.
- Taylor A.N., Rowan-Robinson M., Reconstruction analysis – I. Redshift-space deprojection in the quasi-non-linear regime, **265**, 809
- Taylor D. *see* Cimatti A.
- Taylor G.L. *see* Dunlop J.S.
- Taylor K. *see* Colless M.
- Taylor S.D. *see* Duley W.W.
- Taylor S.D., Hartquist T.W., Williams D.A., *Ab initio* determination of the ratio of H₂ column density to CO($J = 1 \rightarrow 0$) integrated antenna temperature, **264**, 929
- Taylor S.D., Williams D.A., Hydrocarbons from shocked carbonaceous dust, **260**, 280
- Telesco C.M., Strong limits on the 20-μm emission from the high-redshift galaxy IRAS 10214 + 4724, **263**, L37
- Tennyson J. *see* Sarpal B.K.
- Tenorio-Tagle G. *see* Rózyczka M.
- Terasawa N., Nakamura H., The ionization structure of Cygnus X-3: a massive iron-depleted companion?, **265**, L1
- Terásranta H. *see* Robson E.I.
- Terlevich E. *see* Pastoriza M.G.
- Terlevich E., Diaz A.I., Terlevich R., García Vargas M.L., New detections of Ly α emission in young galaxies, **260**, 3
- Terlevich R. *see* Pastoriza M.G.
- Terlevich R. *see* Terlevich E.
- Terlevich R.J., Boyle B.J., Young ellipticals at high redshift, **262**, 491
- Thatcher J.D., Robinson R.D., The chromospheres of late-type stars – II. An atlas of chromospheric lines for selected early-K stars, **262**, 1
- Theuns T., Jorissen A., Wind accretion in binary stars – I. Intricacies of the flow structure, **265**, 946
- Thomas P.A. *see* Pearce F.R.
- Thompson M.J. *see* Christensen-Dalsgaard J.
- Thompson R.J., Jr., CO observations of ultrasoft active galactic nuclei, **264**, 999
- Tkaczyk W. *see* Moskalenko I.V.
- Tobin W. *see* Duncan S.P.R.
- Tobin W., Duncan S.P.R., West S.R.D., Gilmore A.C., CCD photometry of variable stars in the Magellanic Clouds – III. The eclipsing binary HV 12484, **260**, 777
- Toffolatti L. *see* Carrera F.J.

- Tomita A. *see* Yamada T.
 Tomkin J., Lambert D.L., Lemke M., The chemical composition of Algol systems – V. Confirmation of carbon deficiencies in the primaries of eight systems, **265**, 581
 Tompkins G.J. *see* Naylor D.A.
 Tornikoski M. *see* Robson E.I.
 Torres-Peimbert S. *see* Coziol R.
 Tout C.A. *see* Kroupa P.
 Tout C.A., Pringle J.E., la Dous C., Is the accretion disc of TT Ari hotter after a minimum?, **265**, L5
 Trabert E. *see* Jupé C.
 Tribble P.C., Radio haloes, cluster mergers, and cooling flows, **263**, 31
 Tribble P.C., Radio spectral ageing in a random magnetic field, **261**, 57
 Trigilio C., Umana G., Migenes V., VLBI observations of a strong radio flare in HR 1099, **260**, 903
 Tsuruta S. *see* Brandt W.N.
 Tuchiyama A. *see* Koike C.
 Tully J.A. *see* Lanzafame A.C.
 Tuohy I.R. *see* Buckley D.A.H.
 Turatto M., Cappellaro E., Benetti S., Danziger I.J., Observations of type II plateau supernovae: SNe 1988A, 1988H and 1989C, **265**, 471
 Turatto M., Cappellaro E., Danziger I.J., Benetti S., Gouiffes C., Della Valle M., The Type II supernova 1988Z in MCG + 03-28-022: increasing evidence of interaction of supernova ejecta with a circumstellar wind, **262**, 128
 Turner J.A., Phillips S., Davies J.I., Disney M.J., A deep CCD search for low surface brightness galaxies in A3574, **261**, 39
 Turner M.J.L. *see* Saxton R.D.
 Turner T.J. *see* George I.M.
 Tutukov A.V., Yungelson L.R., The merger rate of neutron star and black hole binaries, **260**, 675
 Tweedy R.W., The presence of Fe VII and of low-ionization features in the UV spectra of central stars of planetary nebulae, **260**, 855

 Umana G. *see* Trigilio C.
 Umemura M. *see* Hasegawa T.
 Unger S.J. *see* Coe M.J.
 Unger S.J. *see* Everall C.
 Unger S.J. *see* Norton A.J.
 Unger S.W. *see* Pedlar A.
 Usenko I.A. *see* Andrievsky S.M.
 Usov V.V. *see* Harding A.K.

 Vallance R.J. *see* Pounds K.A.
 Vallée J.P., Further analysis of a 'Complete Sample' in the Virgo Supercluster of galaxies, **264**, 665
 Valtaoja E. *see* Robson E.I.
 van Albada T.S., Bertin G., Stiavelli M., A surface brightness correction to the $D_n - \sigma$ relation, **265**, 627
 van de Weygaert R., van Kampen E., Voids in gravitational instability scenarios – I. Global density and velocity fields in an Einstein-de Sitter universe, **263**, 481
 van den Berg S., The Oosterhoff effect, **262**, 588
 van der Klis M. *see* Lubin L.M.
 van der Klis M., Hasinger G., Dotani T., Mitsuda K., Verbunt F., Murphy B.W., van Paradijs J., Belloni T., Makishima K., Morgan E., Lewin W.H.G., Simultaneous ROSAT/Ginga observations of 4U 1820–30, **260**, 686
 van der Walt D.J. *see* Schutte A.J.
 van der Werf P.P. *see* Clements D.L.
 van Groningen E., Further evidence for Raman scattering in RR Tel, **264**, 975
 van Haarlem M.P., Cayón L., de la Cruz C.G., Martínez-González E., Rebolo R., The dynamics of the outer regions of the Coma cluster, **264**, 71
 Van Hamme W., Wilson R.E., Light-curve solutions for S Cancri and TT Hydras with rapid rotation, **262**, 220
 van Kampen E. *see* van de Weygaert R.
 van Langevelde H.J., Spaans M., Geometrical effects in models of OH/IR-star masers, **264**, 597
 van Paradijs J. *see* Lubin L.M.
 van Paradijs J. *see* van der Klis M.
 van Wyk F. *see* Lawson W.A.

 van Wyk F. *see* Martinez P.
 Varani G.-F. *see* Meikle W.P.S.
 Ventura R., Rodonò M., On the nature of the short-period variability of 21 Com, **263**, 742
 Verbunt F. *see* van der Klis M.
 Véron P. *see* Hawkins M.R.S.
 Vila-Costas M.B., Edmunds M.G., The nitrogen-to-oxygen ratio in galaxies, and its implications for the origin of nitrogen, **265**, 199
 Vilhu O. *see* Hakala P.J.
 Vinkó J., An orbital solution for the binary Cepheid AW Per, **260**, 273
 Vio R. *see* Fasano G.
 Vitiello E. *see* Ferraro F.R.
 Vittorio N. *see* Scaramella R.
 Voges W. *see* Böhringer H.
 Vokrouhlický D., Karas V., A star orbiting around a supermassive rotating black hole: free motion and corrections due to star–disc collisions, **265**, 365
 Vucetic H. *see* Horvath J.E.

 Wachlin F.C., Rybicki G.B., Muzzio J.C., A perturbation particle method for stability studies of stellar systems, **262**, 1007
 Wade D. *see* Dent W.R.F.
 Wagenblast R., Williams D.A., Millar T.J., Nejad L.A.M., On the origin of NH in diffuse interstellar clouds, **260**, 420
 Waldram E.M., Riley J.M., Source analysis on radio maps from the Cambridge Low Frequency Synthesis Telescope, **265**, 853
 Waldron L. *see* Greenhill J.G.
 Walsh D. *see* Browne I.W.A.
 Walsh D. *see* Patnaik A.R.
 Walsh J.R. *see* Prieto M.A.
 Walsh J.R., Roy J.-R., Abundances in the starburst galaxy II Zw 40, **262**, 27
 Wambsganss J. *see* Lewis G.F.
 Wamsteker W. *see* Sanz J.L.
 Wang L. *see* Meaburn J.
 Wang L., Dyson J.E., Kahn F.D., The nature of the Napoleon's Hat nebula of SN 1987A, **261**, 391
 Ward M. *see* Simpson C.
 Ward M.J. *see* Clements D.L.
 Ward M.J. *see* Fabian A.C.
 Ward M.J. *see* Inglis M.D.
 Ward M.J. *see* Kotilainen J.K.
 Ward M.J. *see* Nandra K.
 Ward M.J. *see* Young S.
 Ward-Thompson D. *see* Hobson M.P.
 Ward-Thompson D. *see* Richer J.S.
 Ward-Thompson D. *see* Wendker H.J.
 Ward-Thompson D., Previously unresolved *IRAS* sources in the ρ Oph A cloud, **265**, 493
 Warner B. *see* Buckley D.A.H.
 Warner P.J. *see* Hales S.E.G.
 Warner P.J. *see* Lucy M.
 Warren S.J., Irwin M.J., Evans D.W., Liebert J., Osmer P.S., Hewett P.C., More dwarf carbon stars, **261**, 185
 Warwick R.S. *see* Carrera F.J.
 Warwick R.S. *see* Nandra K.
 Warwick R.S. *see* Pounds K.A.
 Warwick R.S. *see* Yaqoob T.
 Warwick R.S., Barber C.R., Hodgkin S.T., Pye J.P., The EUV source population and the local bubble, **262**, 289
 Warwick R.S., Sembay S., Yaqoob T., Makishima K., Ohashi T., Tashiro M., Kohmura Y., X-ray properties of active galaxies with high intrinsic absorption, **265**, 412
 Washimi H., Shibata S., Thermo-centrifugal wind from a rotating magnetic dipole, **262**, 936
 Watson J.M., Rowan-Robinson M., The void probability function for flux-limited samples, **265**, 1027
 Watson M.G. *see* Buckley D.A.H.
 Watson M.G. *see* Hakala P.J.
 Watson M.G. *see* Jomaron C.M.
 Watson M.G. *see* O'Donoghue D.
 Watson M.G. *see* Pounds K.A.
 Watson M.G. *see* Ramsay G.
 Watson R.D. *see* Duncan S.P.R.
 Watt G.D. *see* Hawarden T.G.

- Weaver H.A. *see* Davies J.K.
 Webb J.K. *see* Petitjean P.
 Webb J.K. *see* Rauch M.
 Webster A. *see* McIntosh A.
 Webster A., A theory of the diffuse interstellar bands, **262**, 831
 Webster A., Large molecules, small radicals and the diffuse interstellar bands, **265**, 421
 Webster A., On the carriers of the diffuse interstellar bands, **263**, 385
 Webster A., On the nebular absorption and re-emission of the ultraviolet flux from HD 44179, **262**, L59
 Webster A., The extended red emission and the fluorescence of C₆₀, **264**, L1
 Webster A., The fullerene C₆₀H₂ and the interstellar extinction, **263**, L55
 Webster A., The vibrations of C₆₀H₆₀ and the unidentified infrared emission, **264**, 121
 Wegner G. *see* Colless M.
 Wegner G. *see* Saglia R.P.
 Weil M.L. *see* Hernquist L.
 Weisheit J.C. *see* Crosas M.
 Wellington K.J. *see* Caswell J.L.
 Wells A.A. *see* Pounds K.A.
 Wendker H.J., Higgs L.A., Landecker T.L., Ward-Thompson D., The Cygnus X region - XIX. No supernova remnant in the W75 area, **263**, 543
 West M.J., Biased globular cluster formation, **265**, 755
 West R.G. *see* Sembay S.
 West S.R.D. *see* Tobin W.
 Weymann R.J. *see* Rauch M.
 Wheatley P.J. *see* Buckley D.A.H.
 Wheeler S.J. *see* Elsworth Y.
 White D.A. *see* Allen S.W.
 White S.D.M. *see* Kauffmann G.
 White S.D.M. *see* Moore B.
 White S.D.M. *see* Navarro J.F.
 White S.D.M., Briel U.G., Henry J.P., X-ray archaeology in the Coma cluster, **261**, L8
 White S.D.M., Efstathiou G., Frenk C.S., The amplitude of mass fluctuations in the Universe, **262**, 1023
 Whitelock P.A. *see* Caldwell J.A.R.
 Whiteoak J.B. *see* Peng R.S.
 Whiteoak J.B.Z. *see* Gray A.D.
 Whitney B.A. *see* Clayton G.C.
 Whittet D.C.B. *see* Kerr T.H.
 Wickramasinghe D. *see* Meglicki Z.
 Wickramasinghe D.T. *see* Bailey J.
 Wickramasinghe D.T. *see* Cropper M.
 Wickramasinghe D.T. *see* Ferrario L.
 Wickramasinghe D.T. *see* Wu K.
 Wickramasinghe D.T., Ferrario L., Bailey J.A., Drissen L., Dopita M.A., Shara M., Hough J.H., Discovery of another AM Her variable in the period gap, **265**, L29
 Wiita P.J. *see* Gopal-Krishna
 Wilding T., Alexander P., Green D.A., Neutral hydrogen observations of NGC 3628, **263**, 1075
 Wilkinson P.N. *see* Brown I.W.A.
 Wilkinson P.N. *see* Patnaik A.R.
 Willacy K., Pedlar A., Berry D., Neutral hydrogen observations of a ROSAT deep survey field at RA 10^h07^m, Dec. 53°, **261**, 165
 Willacy K., Williams D.A., Desorption processes in molecular clouds: quasi-steady-state chemistry, **260**, 635
 Willacy K., Williams D.A., Minh Y.C., Gas-grain interactions and the E/A ratio of methyl cyanide in TMC-1, **263**, L40
 Williams B.A. *see* Rood H.J.
 Williams D.A. *see* Duley W.W.
 Williams D.A. *see* Taylor S.D.
 Williams D.A. *see* Wagenblast R.
 Williams D.A. *see* Willacy K.
 Williams I.P. *see* Lagerkvist C.-I.
 Williams I.P. *see* Wu Z.
 Williams I.P., Hughes D.W., McBride N., Wu Z., Collisions between the nucleus of Comet Halley and dust from its own meteoroid stream, **260**, 43
 Williams I.P., Wu Z., The Geminid meteor stream and asteroid 3200 Phaethon, **262**, 231
 Williams I.P., Wu Z., The Quadrantid meteoroid stream and Comet 1491 I, **264**, 659
 Williams O.R. *see* Saxton R.D.
 Williams R. *see* Perry J.J.
 Williger G.M. *see* Kotilainen J.K.
 Willingale R. *see* Pounds K.A.
 Willmer C. *see* Caldwell J.A.R.
 Willmore A.P. *see* Pounds K.A.
 Willoughby G.A. *see* Pounds K.A.
 Wilson R.E. *see* Van Hamme W.
 Wilson W.E. *see* Subrahmanyan R.
 Woan G., Duffett-Smith P.J., A deep search for pulsed emission from Cassiopeia A, **260**, 693
 Wolf M., Diethelm R., Period changes in the eclipsing binary DR Vulpeculae, **263**, 527
 Wolff M. *see* Kolokolova L.O.
 Wolstencroft R.D. *see* Foley N.B.
 Wolstencroft R.D. *see* Scarrott R.M.J.
 Wolstencroft R.D. *see* Scarrott S.M.
 Wolstencroft R.D. *see* Sekiguchi K.
 Wonacott D. *see* Pounds K.A.
 Wonacott D., Kellett B.J., Stickland D.J., IK Peg - a nearby, short-period, Sirius-like system, **262**, 277
 Wood J.H. *see* Ramsayer T.F.
 Wood J.H., Zhang E.-H., Robinson E.L., HW Virginis: a short-period eclipsing binary containing an sdB star, **261**, 103
 Woods J.A. *see* Drew J.E.
 Wright C.M. *see* Aitken D.K.
 Wright M.C.H. *see* Robson E.I.
 Wu K., Wickramasinghe D.T., Magnetic moment distribution of magnetic cataclysmic variables - II. Effects due to period distribution, **265**, 115
 Wu K., Wickramasinghe D.T., The magnetic field configurations of AM Herculis binaries, **260**, 141
 Wu X.-P., Hammer F., Statistics of lensing by clusters of galaxies - I. Giant arcs, **262**, 187
 Wu Xinji, Manchester R.N., Lyne A.G., Qiao Guojun, Mean pulse polarization of southern pulsars at 1560 MHz, **261**, 630
 Wu Xue-bing *see* Kato S.
 Wu Z. *see* Williams I.P.
 Wu Z., Williams I.P., The Perseid meteor shower at the current time, **264**, 980
 Wynne C.G., A four-lens combined field and dispersion corrector giving telecentric imagery over a field diameter of 1.5°, **265**, 747
 Wynne C.G., A new form of atmospheric dispersion corrector, **262**, 741
 Wynne C.G., A three-lens combined field and dispersion corrector giving telecentric imagery on optics fibres, **263**, 641
 Wynne C.G., Telecentricity in fibre-fed spectrographs, **260**, 307
 Xia X.Y. *see* Mo H.J.
 Yabushita S., Thermal evolution of cometary nuclei by radioactive heating and possible formation of organic chemicals, **260**, 819
 Yamada T. *see* Lahav O.
 Yamada T., Takata T., Djameluddin T., Tomita A., Aoki K., Takeda A., Saitō M., Connection of large-scale structures of the galaxy distribution behind the southern Milky Way, **262**, 79
 Yamashita K. *see* Nakamura H.
 Yamashita T. *see* Chandler C.J.
 Yamauchi M. *see* Yaqoob T.
 Yang Lan-tian *see* Kato S.
 Yang Zhi-liang *see* Kato S.
 Yaqoob T. *see* Warwick R.S.
 Yaqoob T., Ebisawa K., Mitsuda K., Is X1957 + 11 a black hole candidate?, **264**, 411
 Yaqoob T., Warwick R.S., Makino F., Otani C., Sokoloski J.L., Bond I.A., Yamauchi M., Further probing of the X-ray source in NGC 4151: new constraints on the nuclear geometry, **262**, 435
 Yoshida A. *see* Nakamura H.
 Young S. *see* Inglis M.D.
 Young S., Hough J.H., Bailey J.A., Axon D.J., Ward M.J., Spectropolarimetry of the ultraluminous infrared galaxy IRAS 110548-1131, **260**, L1
 Yungelson L.R. *see* Tutukov A.V.

- Zafiropoulos B. *see* Spencer R.E.
Zamorani G. *see* Cimatti A.
Zeilinger W.W. *see* Fasano G.
Zeilinger W.W., Møller P., Stiavelli M., Multicolour surface photometry of NGC 4486 (M87) and its jet, **261**, 175
Zepf S.E., Ashman K.M., Globular cluster systems formed in galaxy mergers, **264**, 611
- Zhang E. *see* Ramseyer T.F.
Zhang E.-H. *see* Wood J.H.
Zhakov S.A. *see* Mysnikov A.V.
Zijlstra A. *see* Caldwell J.A.R.
Zwitter T., Binary pulsar PSR 1718–19 contains a stripped main-sequence turn-off star, **264**, L3
Żytkow A.N. *see* Irwin M.